						TMENT OF	F NAT	UTAH URAL RES GAS AND N				AMEN	FC IDED REPC	RM 3		
		APP	LICATION F	OR	PERMIT TO	DRILL					1. WELL NAME and		R 1-28G4BS			
2. TYPE (OF WORK	RILL NEW WELL (neente	R P&	A WELL	DEEPEN \	WELL				3. FIELD OR WILD		L BUTTES			
4. TYPE (ed Methane We		,				5. UNIT or COMMU	NITIZA [.]	TION AGR	EEMENT	NAME	
6. NAME	OF OPERATOR										7. OPERATOR PHO	NE	L BUTTES			
8. ADDRI	ESS OF OPERA	TOR			AS ONSHORE,						9. OPERATOR E-MA	\IL	29-6515			
10. MINE	RAL LEASE N		P.O. Box 17377	'9, D	enver, CO, 802		SHIP				julie.ja 12. SURFACE OWN		@anadarko	.com		
	L, INDIAN, OF				FEDERAL _	INDIAN	0000	STATE (0	FEE 🔵		DIAN 🥛	STATI		FEE 🔵	
13. NAM					14. SURFACE OWN	ER PHO	NE (if box	12 = 'fe	e')							
15. ADDF	RESS OF SURF	ACE OWNER (if b	ox 12 = 'fee')							16. SURFACE OWN	ER E-MA	AIL (if box	12 = 'fe	ee')	
17. INDI	AN ALLOTTEE	OR TRIBE NAME			18. INTEND			PRODUCT	ION	FROM	19. SLANT					
(if box 1	2 = 'INDIAN')				YES (B) (S			ing Applicat	ion)	NO 🛑	VERTICAL DI	DIRECTIONAL (HORIZONTAL (
20. LOC	ATION OF WE	LL		FO	OTAGES		QTR	R-QTR		SECTION	TOWNSHIP	R	ANGE	ME	RIDIAN	
LOCATION	ON AT SURFAC	CE	20	47 FI	NL 876 FEL		SE	ENE		28	10.0 S	2	1.0 E		S	
Top of U	Jppermost Pro	ducing Zone	215	58 FN	IL 1822 FEL		SV	WNE		28	10.0 S	2	1.0 E		S	
At Total	Depth		215	58 FN	IL 1822 FEL		SV	WNE		28	10.0 S	2	1.0 E		S	
21. COU	NTY	UINTAH			22. DISTANC	E TO NEA	REST 182		E (F	eet)	23. NUMBER OF AC		DRILLING	UNIT		
					25. DISTANC		REST	WELL IN S	AME	POOL	26. PROPOSED DEI					
							137					: 9468	TVD: 93	21		
27. ELEV	ATION - GROU	5345			28. BOND NU		22013	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496					.ICABLE			
					Hole, Ca	asing, an	nd Ce	ment Inf	orm	ation						
String	Hole Size	Casing Size	Length			le & Thre	_	Max Mu		/t.	Cement		Sacks	Yield	Weight	
Surf	11	8.625	0 - 2170	28	8.0 J	-55 LT&C	-	0.2	2	_	Type V Class G		180 270	1.15	15.8 15.8	
Prod	7.875	4.5	0 - 9468	11	1.6 I-8	80 Buttres	cc	12.	5	Drom	nium Lite High Stre	nath	270	3.38	11.0	
1100	7.073	4.5	0 3100		1.0	JO Batti Co	33	12.		TTCII	50/50 Poz	iigtii	1100	1.31	14.3	
						ATT	ACHM	MENTS								
	VERIFY T	HE FOLLOWIN	G ARE ATTA	CH	ED IN ACCO	RDANCE	E WIT	TH THE UT	ТАН	OIL AND	SAS CONSERVATI	ON GE	NERAL F	ULES		
⊮ w	ELL PLAT OR	MAP PREPARED E	BY LICENSED	SUR	VEYOR OR EN	IGINEER		№ сом	IPLE ⁻	TE DRILLING	PLAN					
AF	FIDAVIT OF S	TATUS OF SURFA	CE OWNER A	GRE	EMENT (IF FE	E SURFAC	CE)	FORM	4 5. I	IF OPERATO	R IS OTHER THAN T	HE LEAS	SE OWNER	l		
	DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)							TOPOGRAPHICAL MAP								
NAME D	anielle Piernot	y Analyst				PHONE 720	929-6156									
SIGNAT	URE			DA	TE 03/11/201	.1			\exists	EMAIL dani	elle.piernot@anadarko	o.com				
	MBER ASSIGN 047515220			АР	PROVAL					bol	Defill					
										Pern	nit Manager					

NBU 1021-28H Pad Drilling Program
1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1021-28G4BS

Surface: 2047 FNL / 876 FEL SENE BHL: 2158 FNL / 1822 FEL SWNE

Section 28 T10S R21E

Unitah County, Utah Mineral Lease: ST UT ML 21329

ONSHORE ORDER NO. 1

DRILLING PROGRAM

Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1093	
Birds Nest	1349	Water
Mahogany	1719	Water
Wasatch	4282	Gas
Mesaverde	7114	Gas
MVU2	8054	Gas
MVL1	8580	Gas
TVD	9321	
TD	9468	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

NBU 1021-28H Pad Drilling Program 2 of 7

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9321' TVD, approximately equals 5,952 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,902 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- · Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

NBU 1021-28H Pad

Drilling Program 3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

NBU 1021-28H Pad Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

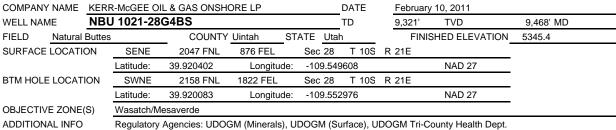
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

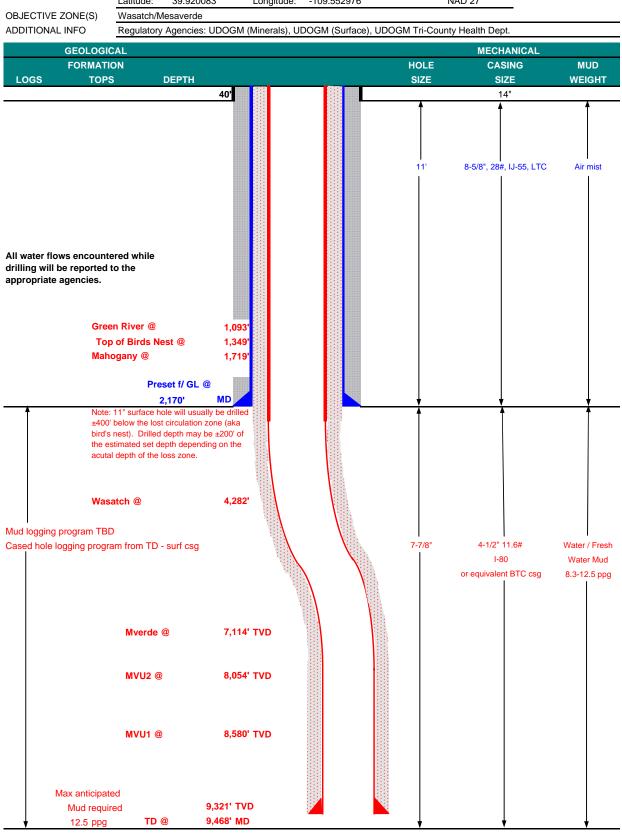
10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP <u>DRILLING PROGRAM</u>







KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

									DESIGN FACT	URS
	SIZE	INT	ERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	()-40'							
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	2,170	28.00	IJ-55	LTC	2.49	1.85	5.67
								7,780	6,350	367,000
PRODUCTION	4-1/2"	0	to	9,468	11.60	I-80	BTC	1.11	1.05	4.13

Surface Casing:

(Burst Assumptions: TD = 12.5 0.73 psi/ft = frac gradient @ surface shoe ppg)

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to su	rface, optio	n 2 will be u	tilized	
Option 2 LEAD	1,670'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,778'	Premium Lite II +0.25 pps	270	10%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	5,690'	50/50 Poz/G + 10% salt + 2% gel	1,100	10%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

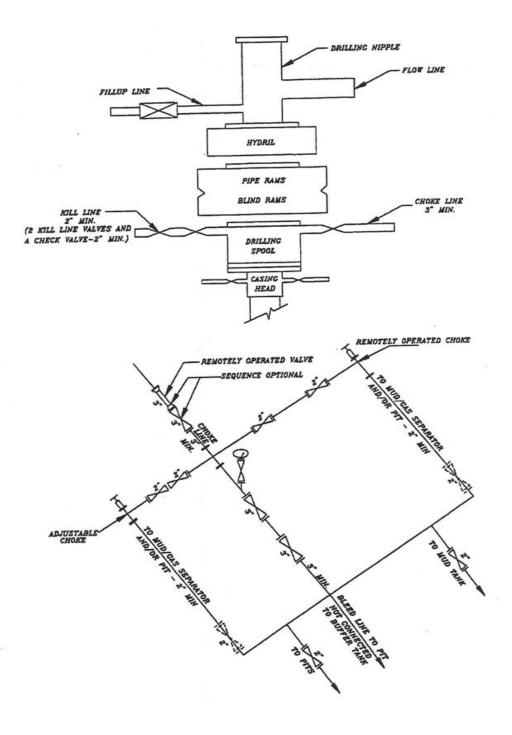
BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals	S .
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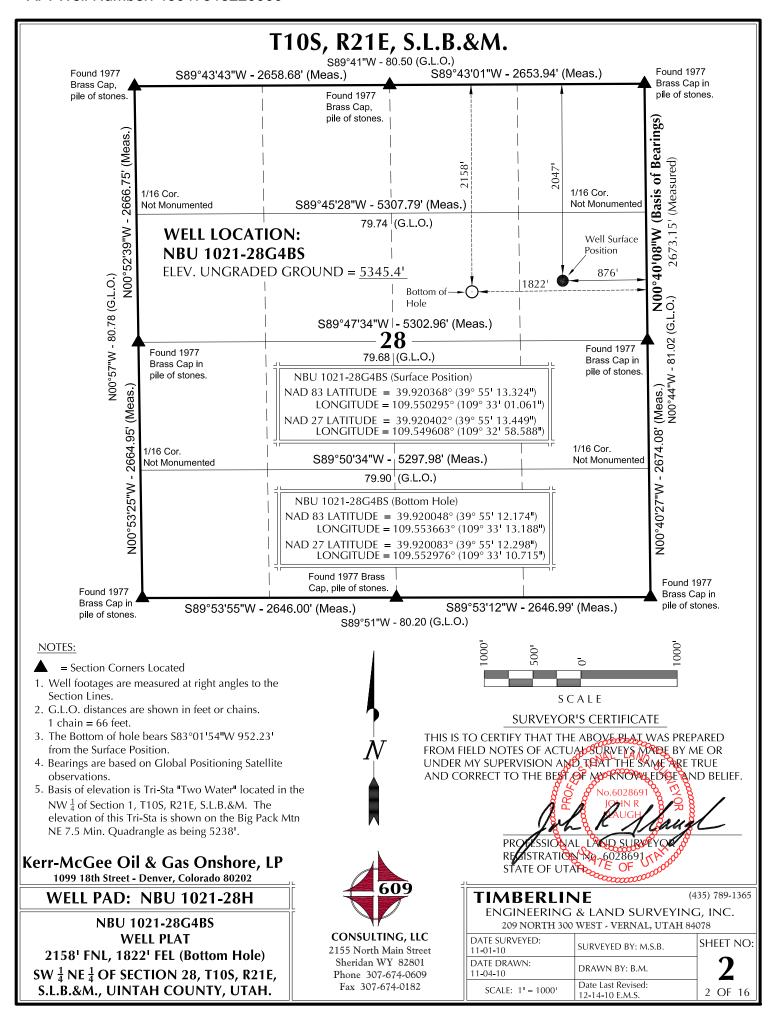
	Most rigs have PVT System	for mud monitoring. If no PVT is available, visual monitoring w	Il be utilized.	
DRILLING	ENGINEER:		DATE:	
		Nick Spence / Emile Goodwin		
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young		

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A NBU 1021-28G4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



												1	
WELL NAME	NA	D83	SURFACE POS	NAD27				NAD	083	BOTTOM HOL	E AD27		
	LATITUDE	LONGITU		DE LONG		FOOTAGES	LATIT	UDE	LONGITUD	E LATITUDE	LATITUDE LONGITUDE		
	39°55'13.235" 39.920343°	109°33'01.1 109.550311			'58.646" 9624°	2056' FNL 880' FEL	39°55'1 39.9200		109°32'56.18 109.548941°	7" 39°55'12.42 39.920118°	5" 109°32'53.714' 109.548254°	2153' FNL 497' FEL	
NBU	39°55'13.324"	109°33'01.0)61" 39°55'13.	449" 109°32	58.588"	2047' FNL	39°55'1	2.174"	109°33'13.18	8" 39°55'12.29	8" 109°33'10.715'	2158' FNL	
	39.920368° 39°55'13.412"	109.550295 109°33'01.0			9608° '58.531"	876' FEL 2038' FNL	39.9200 39°55'2		109.553663° 109°33'13.37	39.920083° 9" 39°55'25.41	109.552976° 8" 109°33'10.905'	1822' FEL 830' FNL	
1021-28B4BS	39.920392°	109.550279	39.92042	7° 109.549	9592°	871' FEL	39.9236	593°	109.553716°	39.923727°	109.553029°	1820' FEL	
	39°55'13.501" 39.92041 <i>7</i> °	109°33'00.9 109.550263		1.00 0=		2029' FNL 866' FEL	39°55'2 39.9237		109°32'56.38 109.548997°	9" 39°55'25.51 39.923754°	5" 109°32'53.916' 109.548310°	828' FNL 496' FEL	
			RELAT	IVE COORD			Position	to Botto	om Hole				
WELL NAME	NORTH		WELL NAME	NORTH	EAST		NAME	NOR	TH EAS		ME NORTH	EAST	
NBU 1021-28H4BS	-95.0'	384 3 11	NBU 1021-28G4BS	-115.5'	-945.2	NBU 1021-2	28B4BS	1,203	-963.	2 NBU 1021-28/	1,203.1 ¹	356.31	
	See Oil & Sth Street - De	263.0316 54"W - 9 Bottom H	nshore, I	,09	30,	AZ=16.49806° (TO BOY) (TO BOY) (TO BOY) (A) BOY(O) H.	7027	28A4 S.I. OI OI 28B4B G4B3 G4B3	HE NE \$\frac{1}{4}\$ OF S L.B.&M. WH LOBAL POSI BSERVATION	ECTION 28, TICH IS TAKEN TIONING SAT NS TO BEAR NOTO $S = \frac{Az}{TO} = \frac{1}{TO}$	FROM ELLITE 100°40'08"W.	35) 789,1365	
WELL	PAD - N	NBU 102	21-28H			5009		TI	MBER	LINE	(4	35) 789-1365	
								11	ngineeri	NG & LANI	o surveying		
	PAD INTE			nc	CONSU	V J LTING, LL	C	DATE		H 300 WEST - V	ERNAL, UTAH 84		
WELLS - NBU	J 1021-28H 21-28B4BS 8			BS,	2155 No	rth Main Stre	eet	11-01		SURVEYE	D BY: M.S.B.	SHEET NO:	
	D IN SECTI					ın WY 8280: 307-674-060		DATE 11-04	DRAWN:	DRAWN E	BY: B.M.	5	
	M., UINTAI					07-674-0182			CALE: 1" = 60'	Date Last		5 OF 16	
								الـ		12-14-10	:.M.S.	J OI 10	

RECEIVED: May. 31, 2011

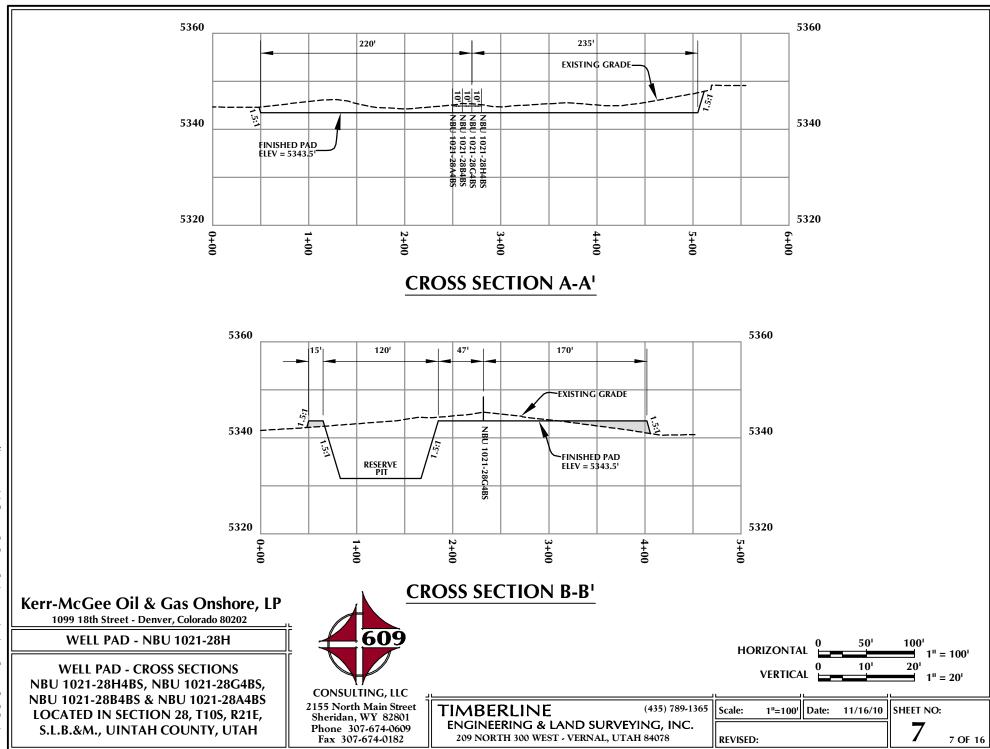
209 NORTH 300 WEST - VERNAL, UTAH 84078

REVISED:

6

6 OF 16

S.L.B.&M., UINTAH COUNTY, UTAH



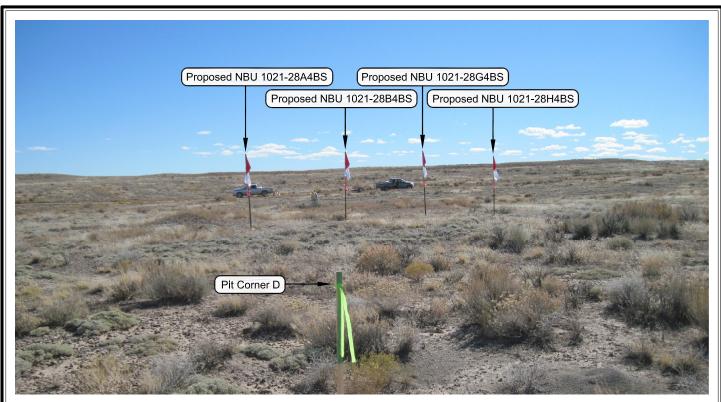


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

WELL PAD - NBU 1021-28H

LOCATION PHOTOS
NBU 1021-28H4BS, NBU 1021-28G4BS,
NBU 1021-28B4BS & NBU 1021-28A4BS
LOCATED IN SECTION 28, T10S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

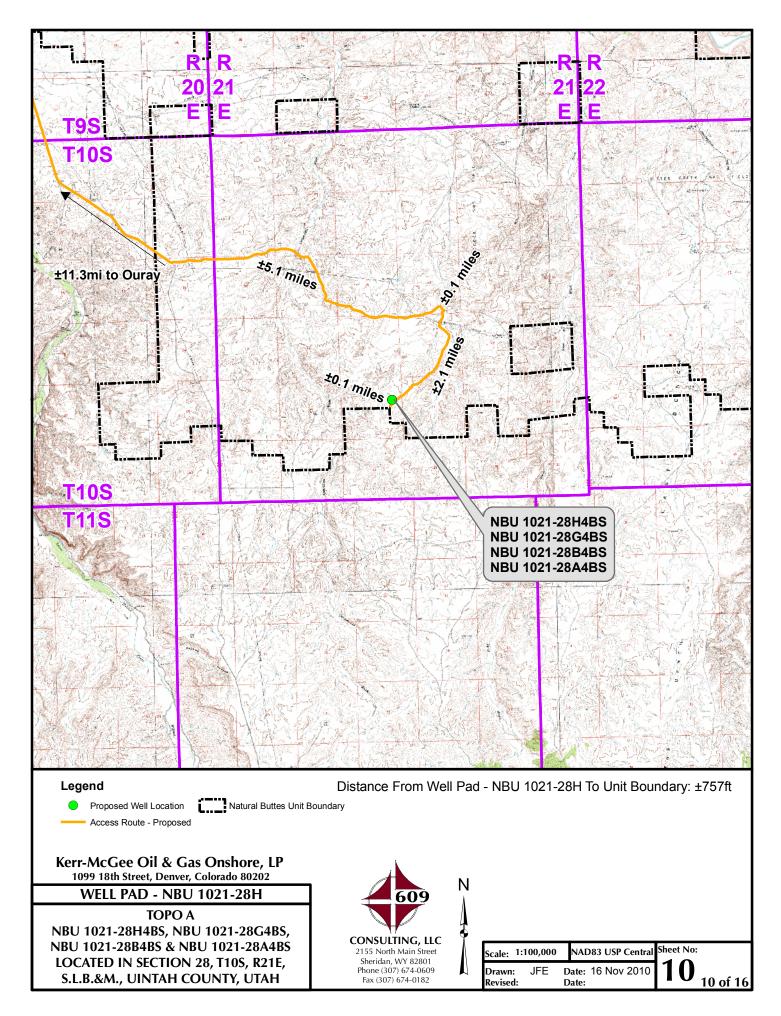
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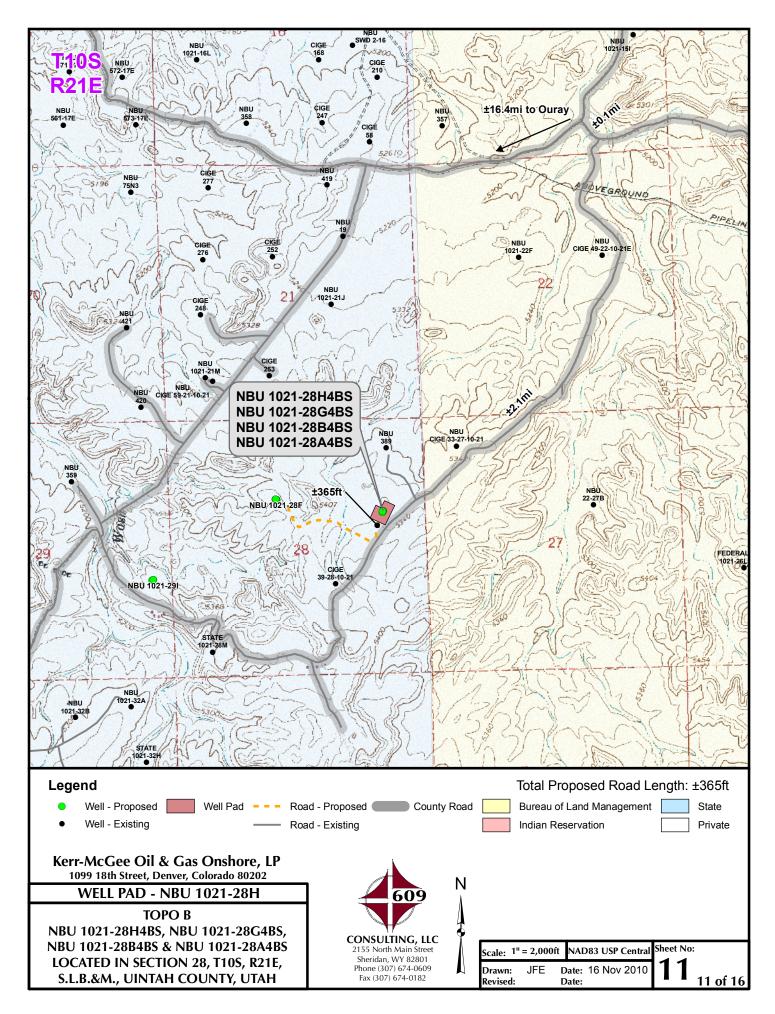
(435) 789-1365

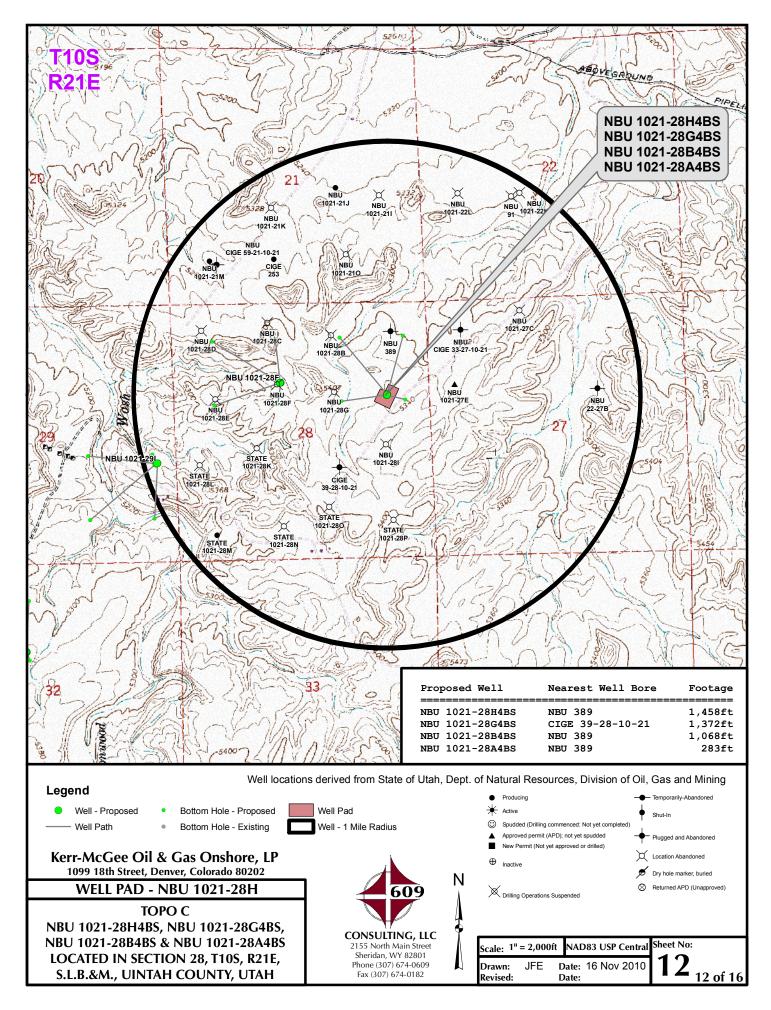
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

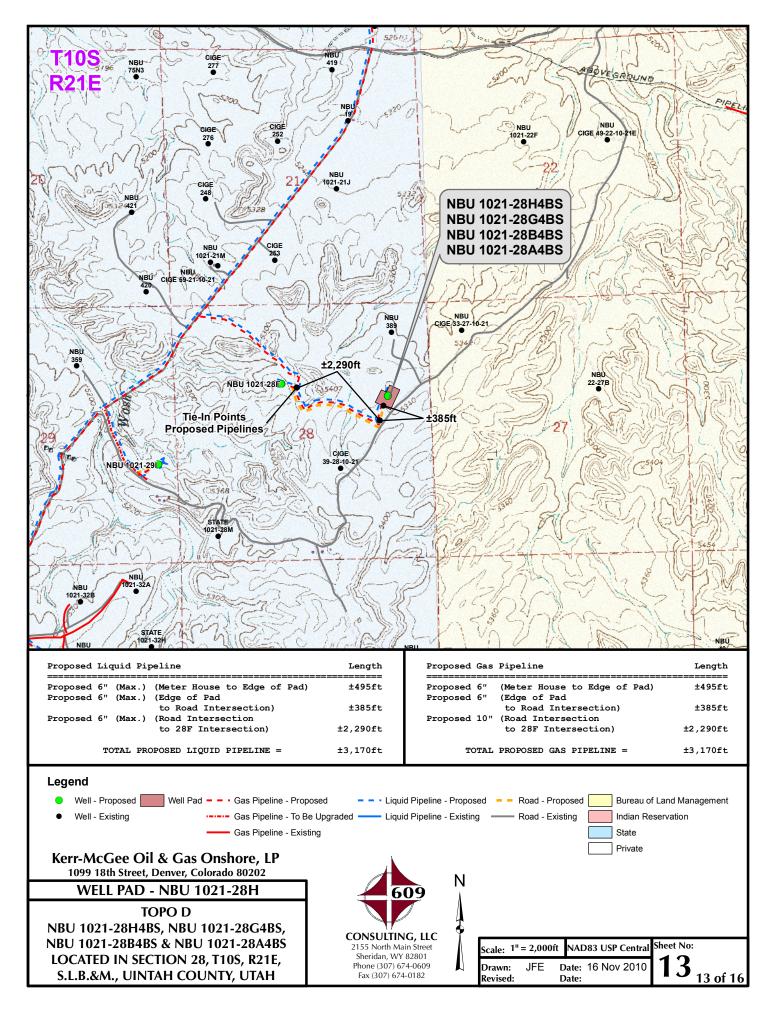
DATE PHOTOS TAKEN: 11-01-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO:
DATE DRAWN: 11-04-10	DRAWN BY: B.M.	9

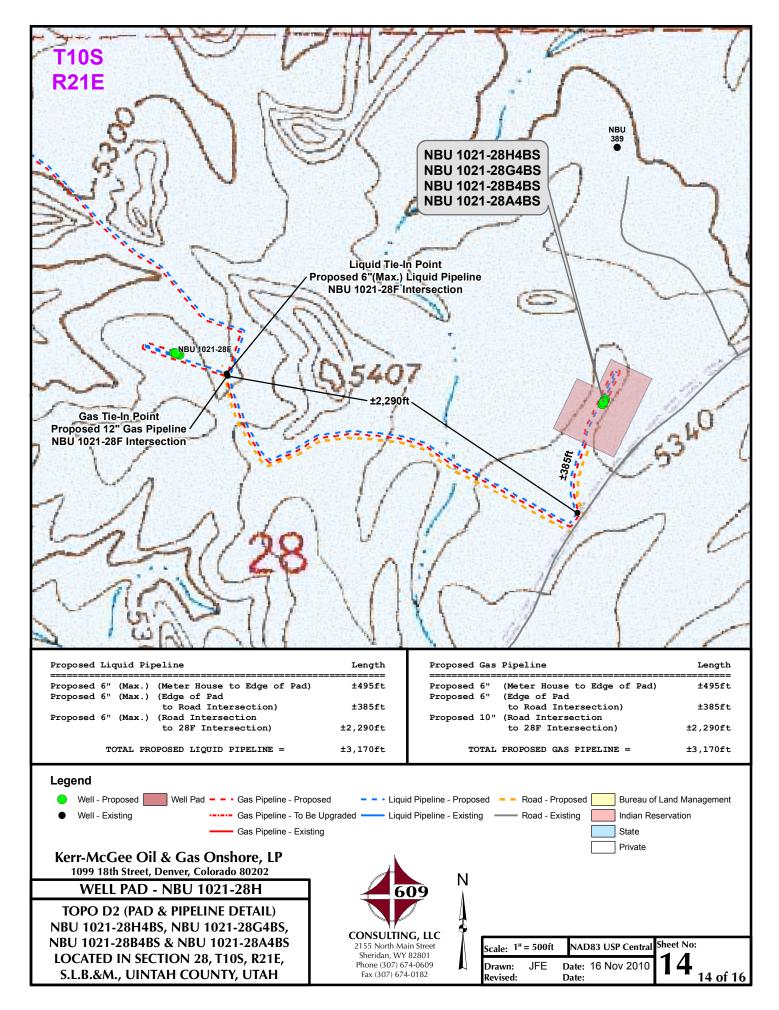
Date Last Revised: 9 OF 16

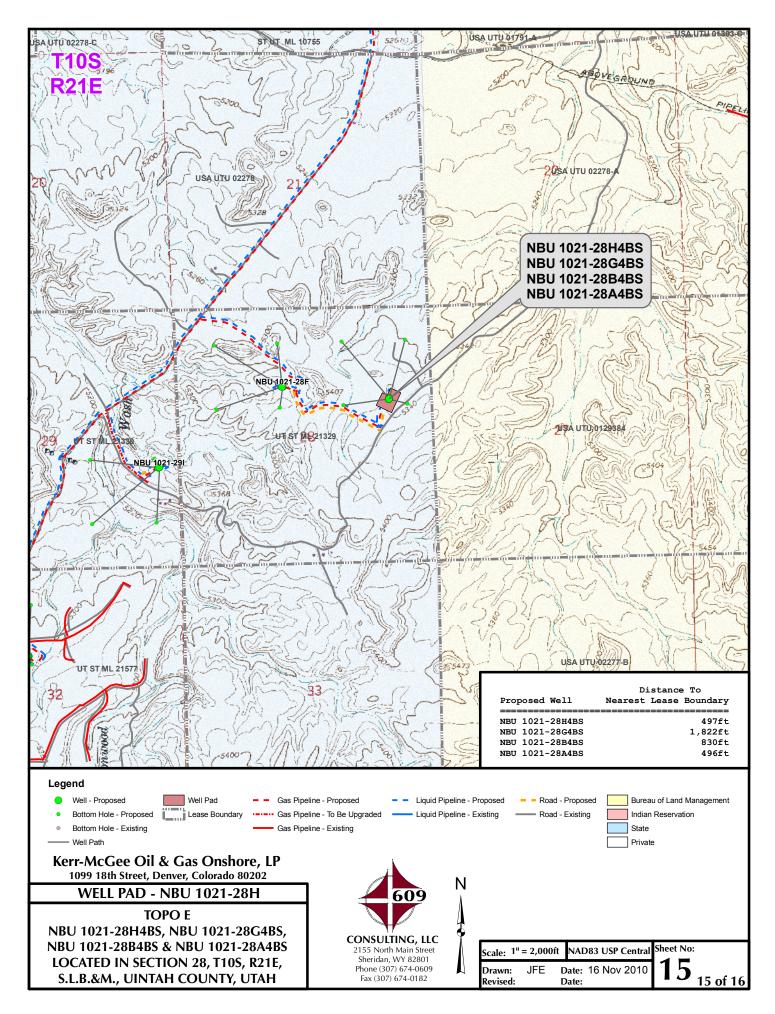












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 1021-28H WELLS – NBU 1021-28H4BS, NBU 1021-28G4BS, NBU 1021-28B4BS & NBU 1021-28A4BS Section 35, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and Vernal Avenue in Vernal, Utah, proceed in a westerly direction along U.S. Highway 40 approximately 13.9 miles to the junction of State Highway 88. Exit left and proceed in a southerly direction along State Highway 88 approximately 16.8 miles to Ouray, Utah. From Ouray, proceed in a southerly direction along the Seep Ridge Road (County B Road 2810) approximately 11.3 miles to the intersection of the Glen Bench Road (Class B County Road 3260) to the east. Exit left and proceed in an easterly then southeasterly direction along the Glen Bench Road approximately 5.1 miles to the intersection of the Bitter Creek Road (Class B County Road 4120) to the southeast. Exit right and proceed in a southeasterly direction along the Bitter Creek Road approximately 0.1 miles to the intersection of the Cottonwood Wash Road (Class D County Road) to the south. Exit right and proceed in a southerly then southwesterly direction along the Cottonwood Wash Road approximately 2.1 miles to the proposed access road to the north. Follow road flags in a northerly direction approximately 365 feet to the proposed location.

Total distance from Vernal, Utah to the proposed well location is approximately 49.4 miles in a southerly direction.

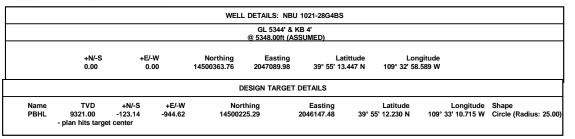
SHEET 16 OF 16

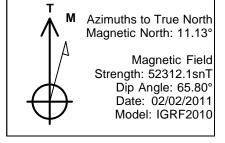
API Well Number: 430475152220000: UTAH - UTM (feet), NAD27, Zone 12N

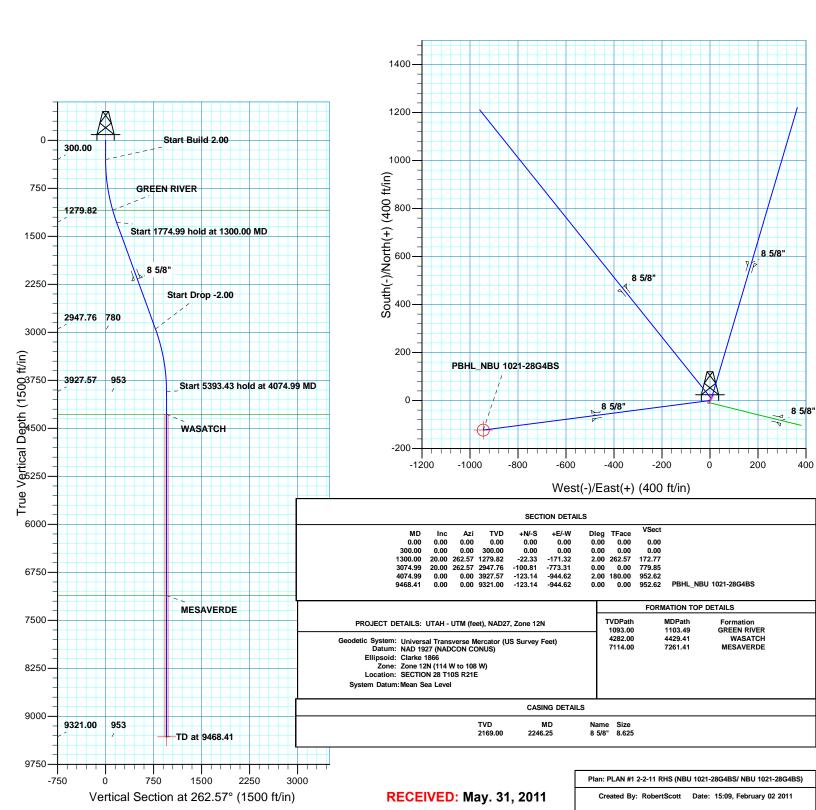
Scientific Drilling
Rocky Mountain Operations

Site: NBU 1021-28H PAD Well: NBU 1021-28G4BS Wellbore: NBU 1021-28G4BS Design: PLAN #1 2-2-11 RHS











US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1021-28H PAD NBU 1021-28G4BS

NBU 1021-28G4BS

Plan: PLAN #1 2-2-11 RHS

Standard Planning Report

02 February, 2011





Position Uncertainty

SDI Planning Report

MD Reference:

North Reference:



5.344.00 ft

EDM5000-RobertS-Local Database:

Company: US ROCKIES REGION PLANNING Local Co-ordinate Reference: TVD Reference:

GL 5344' & KB 4'

UTAH - UTM (feet), NAD27, Zone 12N Project:

@ 5348.00ft (ASSUMED) GL 5344' & KB 4'

Well NBU 1021-28G4BS

@ 5348.00ft (ASSUMED)

Site: NBU 1021-28H PAD NBU 1021-28G4BS Well:

True

Wellbore: NBU 1021-28G4BS Design: PLAN #1 2-2-11 RHS

Ground Level:

Survey Calculation Method:

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

System Datum: Mean Sea Level NAD 1927 (NADCON CONUS)

Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

NBU 1021-28H PAD, SECTION 28 T10S R21E Site

0.00 ft

Northing: 14,500,363.76 usft Site Position: Latitude: 39° 55' 13.447 N From: Lat/Long Easting: 2,047,089.97 usft Longitude: 109° 32' 58.589 W 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.93° **Position Uncertainty:**

Well NBU 1021-28G4BS, 2047 FNL 876 FEL **Well Position** +N/-S 0.00 ft 14,500,363.76 usft 39° 55' 13.447 N Northing: Latitude: +E/-W 0.00 ft Easting: 2,047,089.97 usft Longitude: 109° 32' 58.589 W

Wellhead Elevation:

NBU 1021-28G4BS Wellbore Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) IGRF2010 02/02/2011 11.13 65.80 52,312

PLAN #1 2-2-11 RHS Design **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 262.57

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	262.57	1,279.82	-22.33	-171.32	2.00	2.00	0.00	262.57	
3,074.99	20.00	262.57	2,947.76	-100.81	-773.31	0.00	0.00	0.00	0.00	
4,074.99	0.00	0.00	3,927.57	-123.14	-944.62	2.00	-2.00	0.00	180.00	
9,468.41	0.00	0.00	9,321.00	-123.14	-944.62	0.00	0.00	0.00	0.00	PBHL_NBU 1021-280



SDI **Planning Report**



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

Project:

UTAH - UTM (feet), NAD27, Zone 12N

Site: Well: Wellbore: NBU 1021-28H PAD NBU 1021-28G4BS

NBU 1021-28G4BS Design: PLAN #1 2-2-11 RHS Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well NBU 1021-28G4BS

GL 5344' & KB 4'

@ 5348.00ft (ASSUMED)

GL 5344' & KB 4'

@ 5348.00ft (ASSUMED)

True

Minimum Curvature

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2	.00								
1,103.49	16.07	262.57	1,093.00	-14.47	-111.00	111.94	2.00	2.00	0.00
GREEN RIVE	R								
1,300.00	20.00	262.57	1,279.82	-22.33	-171.32	172.77	2.00	2.00	0.00
Start 1774.99	hold at 1300.00	MD							
2,246.25	20.00	262.57	2,169.00	-64.17	-492.24	496.40	0.00	0.00	0.00
8 5/8"									
3,074.99	20.00	262.57	2,947.76	-100.81	-773.31	779.85	0.00	0.00	0.00
Start Drop -2	.00								
4,074.99	0.00	0.00	3,927.57	-123.14	-944.62	952.62	2.00	-2.00	0.00
Start 5393.43	hold at 4074.99	MD							
4,429.41	0.00	0.00	4,282.00	-123.14	-944.62	952.62	0.00	0.00	0.00
WASATCH									
7,261.41	0.00	0.00	7,114.00	-123.14	-944.62	952.62	0.00	0.00	0.00
MESAVERD	E								
9,468.41	0.00	0.00	9,321.00	-123.14	-944.62	952.62	0.00	0.00	0.00
TD at 9468.4	1 - PBHL_NBU 1	021-28G4BS							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1021-28G4I - plan hits target cent - Circle (radius 25.00		0.00	9,321.00	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55′ 12.230 N	109° 33' 10.715 W

Casing Points					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,246.25	2,169.00 8 5/8		8.625	11.000

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,103.49	1,093.00	GREEN RIVER				
	4,429.41	4,282.00	WASATCH				
	7,261.41	7,114.00	MESAVERDE				



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1021-28H PAD

 Well:
 NBU 1021-28G4BS

 Wellbore:
 NBU 1021-28G4BS

 Design:
 PLAN #1 2-2-11 RHS

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

GL 5344' & KB 4'

@ 5348.00ft (ASSUMED)

Well NBU 1021-28G4BS

GL 5344' & KB 4'

@ 5348.00ft (ASSUMED)

True

Minimum Curvature

Plan Annotations					
N	leasured	Vertical	Local Coor	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	300.00	300.00	0.00	0.00	Start Build 2.00
	1,300.00	1,279.82	-22.33	-171.32	Start 1774.99 hold at 1300.00 MD
	3,074.99	2,947.76	-100.81	-773.31	Start Drop -2.00
	4,074.99	3,927.57	-123.14	-944.62	Start 5393.43 hold at 4074.99 MD
	9.468.41	9.321.00	-123.14	-944.62	TD at 9468.41



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1021-28H PAD NBU 1021-28G4BS

NBU 1021-28G4BS

Plan: PLAN #1 2-2-11 RHS

Survey Report - Geographic

02 February, 2011





SDI Survey Report - Geographic



US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 1021-28H PAD

NBU 1021-28G4BS Well: Wellbore: NBU 1021-28G4BS

PLAN #1 2-2-11 RHS Design:

Geo Datum:

Map Zone:

Local Co-ordinate Reference:

TVD Reference:

@ 5348.00ft (ASSUMED) MD Reference: GL 5344' & KB 4'

@ 5348.00ft (ASSUMED)

North Reference:

Survey Calculation Method:

True Minimum Curvature

Well NBU 1021-28G4BS

GL 5344' & KB 4'

Database: EDM5000-RobertS-Local

UTAH - UTM (feet), NAD27, Zone 12N **Project**

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W)

System Datum:

Mean Sea Level

Site NBU 1021-28H PAD, SECTION 28 T10S R21E

Northing: 14,500,363.76 usft 39° 55' 13.447 N Site Position: Latitude: Easting: Lat/Long 2,047,089.97 usft Longitude: 109° 32' 58.589 W From: **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in Grid Convergence: 0.93

Well NBU 1021-28G4BS, 2047 FNL 876 FEL **Well Position** +N/-S 0.00 ft Northing: 14,500,363.76 usft Latitude: 39° 55' 13.447 N +F/-W 0.00 ft Easting: 2,047,089.97 usft Longitude: 109° 32' 58.589 W **Position Uncertainty** 0.00 ft Wellhead Elevation: Ground Level: 5,344.00 ft

NBU 1021-28G4BS Wellbore Declination Magnetics **Model Name** Dip Angle Field Strength Sample Date (°) (°) (nT) IGRF2010 02/02/2011 11.13 65.80 52,312

PLAN #1 2-2-11 RHS Design Audit Notes: Version: **PLAN** Tie On Depth: 0.00 Phase: +N/-S Direction Vertical Section: Depth From (TVD) +E/-W (ft) (ft) (ft) (°) 0.00 0.00 0.00 262.57

02/02/2011 **Survey Tool Program** Date From То (ft) (ft) Survey (Wellbore) **Tool Name** Description 0.00 9,468.41 PLAN #1 2-2-11 RHS (NBU 1021-28G4BS SDI MWD SDI MWD - Standard ver 1.0.1

Planned Survey	/								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
300.00	0.00	0.00	300.00	0.00	0.00	14,500,363.76	2,047,089.97	39° 55′ 13.447 N	109° 32' 58.589 W
Start Bu	ild 2.00								
1,103.49	16.07	262.57	1,093.00	-14.47	-111.00	14,500,347.49	2,046,979.22	39° 55′ 13.304 N	109° 33' 0.014 W
GREEN	RIVER								
1,300.00	20.00	262.57	1,279.82	-22.33	-171.32	14,500,338.65	2,046,919.04	39° 55′ 13.226 N	109° 33' 0.788 W
Start 17	74.99 hold at	1300.00 MD							
2,246.25	20.00	262.57	2,169.00	-64.17	-492.24	14,500,291.61	2,046,598.84	39° 55′ 12.813 N	109° 33' 4.908 W
8 5/8"									
3,074.99	20.00	262.57	2,947.76	-100.81	-773.31	14,500,250.41	2,046,318.41	39° 55′ 12.451 N	109° 33' 8.516 W
Start Dr	op -2.00								



SDISurvey Report - Geographic



Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 1021-28H PAD

 Well:
 NBU 1021-28G4BS

 Wellbore:
 NBU 1021-28G4BS

 Design:
 PLAN #1 2-2-11 RHS

Local Co-ordinate Reference:

TVD Reference:

MD Reference:
North Reference:

Well NBU 1021-28G4BS GL 5344' & KB 4' @ 5348.00ft (ASSUMED)

GL 5344' & KB 4' @ 5348.00ft (ASSUMED)

True

Survey Calculation Method: Minimum Curvature

Database: EDM5000-RobertS-Local

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,074.99	0.00	0.00	3,927.57	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55′ 12.230 N	109° 33' 10.715 W
Start 539	3.43 hold at 4	074.99 MD							
4,429.41	0.00	0.00	4,282.00	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55′ 12.230 N	109° 33' 10.715 W
WASATO	Н								
7,261.41	0.00	0.00	7,114.00	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55′ 12.230 N	109° 33' 10.715 W
MESAVE	RDE								
9,468.41	0.00	0.00	9,321.00	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55′ 12.230 N	109° 33' 10.715 W
TD at 946	TD at 9468.41 - PBHL_NBU 1021-28G4BS								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1021-28G4l - plan hits target cent - Circle (radius 25.00	ter	0.00	9,321.00	-123.14	-944.62	14,500,225.29	2,046,147.48	39° 55' 12.230 N	109° 33' 10.715 W

Casing Points					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,246.25	2,169.00 8 5/8"		8.625	11.000

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,103.49	1,093.00	GREEN RIVER				
	4,429.41	4,282.00	WASATCH				
	7,261.41	7,114.00	MESAVERDE				

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth	Depth	+N/-S	+E/-W	0
(ft)	(ft)	(ft)	(ft)	Comment
300	300	0	0	Start Build 2.00
1300	1280	-22	-171	Start 1774.99 hold at 1300.00 MD
3075	2948	-101	-773	Start Drop -2.00
4075	3928	-123	-945	Start 5393.43 hold at 4074.99 MD
9468	9321	-123	-945	TD at 9468.41

Checked By:	Approved By:	Date:	
,			

NBU 1021-28A4BS

Surface: 2,029' FNL 866' FEL (SE/4NE/4) BHL: 828' FNL 496' FEL (NE/4NE/4)

NBU 1021-28B4BS

Surface: 2,038' FNL 871' FEL (SE/4NE/4) BHL: 830' FNL 1,820' FEL (NW/4NE/4)

NBU 1021-28G4BS

Surface: 2,047' FNL 876' FEL (SE/4NE/4) BHL: 2,158' FNL 1,822' FEL (SW/4NE/4)

NBU 1021-28H4BS

Surface: 2,056' FNL 880' FEL (SE/4NE/4) BHL: 2,153' FNL 497' FEL (SE/4NE/4)

> Pad: NBU 1021-28H Section 28 T10S R21E Mineral Lease: ML 21329

Uintah County, Utah Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. **Existing Roads:**

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately ± 365 ' (0.07 miles) of new road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM. Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 3,170$ ' and the individual segments are broken up as follows:

- ±495' (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.
- ±385' (0.07 miles) -New 6" buried gas pipeline from the edge of pad to the road intersection.
- ±2,290' (0.4 miles) –New 10" buried gas pipeline from the road intersection to the NBU 1021-28F Pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 3,170$ ' and the individual segments are broken up as follows:

±495' (0.1 miles) –New 6" buried liquid pipeline from the separator to the edge of the pad. ±385' (0.07 miles) –New 6" buried liquid pipeline from the edge of pad to the road intersection.

±2,290' (0.4 miles) –New 6" buried liquid pipeline from the road intersection to the NBU 1021-28F Pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. <u>Location and Type of Water Supply:</u>

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B. No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. <u>Methods of Handling Waste Materials</u>:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E

Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Ouray #1 SWD in Sec. 1 T9S R21E NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 33 T9S R21E

NBU 921-33F SWD in Sec. 33 195 R21E NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition,

no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. <u>Plans for Reclamation of the Surface</u>:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where

possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Surface Use Plan of Operations Page 8

NBU 1021-28A4BS / 28B4BS/ 28G4BS/ 28H4BS

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for revegetation. The site specific seed mix will be provided by SITLA.

J. <u>Surface/Mineral Ownership</u>:

SITLA 675 East 500 South, Suite 500 Salt Lake City, UT 84102

K. Other Information:

None

M. <u>Lessee's or Operators' Representative & Certification</u>:

Danielle Piernot Regulatory Analyst I Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

March 11, 2011

Date



Kerr-McGee Oil & Gas Onshore LP PO Box 173779 DENVER, CO 80217-3779

January 17, 2011

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 1021-28G4BS

T10S-R21E

Section 28: SENE (Surf), SWNE (Bottom)

Surface: 876' FEL, 2047' FNL Bottom Hole: 1822' FEL, 2158' FNL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 1021-28G4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

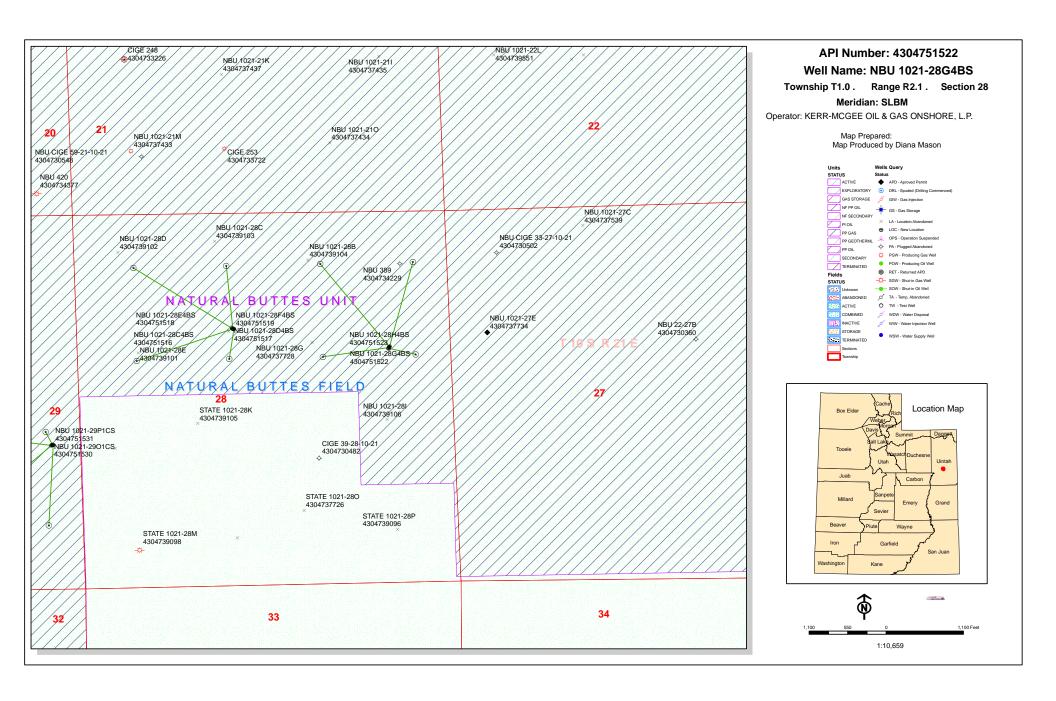
Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Ptt.

Robert Spencer Landman II



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 16, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 1021-30P PAD

43-047-51510 NBU 1021-3004BS Sec 30 T10S R21E 1179 FSL 0971 FEL BHL Sec 30 T10S R21E 0499 FSL 1831 FEL 43-047-51511 NBU 1021-30P1CS Sec 30 T10S R21E 1189 FSL 0972 FEL BHL Sec 30 T10S R21E 0837 FSL 0499 FEL **NBU 1021-32F PAD** 43-047-51512 NBU 1021-32C4BS Sec 32 T10S R21E 1872 FNL 2121 FWL BHL Sec 32 T10S R21E 0825 FNL 2188 FWL 43-047-51513 NBU 1021-32D4BS Sec 32 T10S R21E 1860 FNL 2105 FWL BHL Sec 32 T10S R21E 0825 FNL 0842 FWL Sec 32 T10S R21E 1866 FNL 2113 FWL 43-047-51514 NBU 1021-32E4BS BHL Sec 32 T10S R21E 2072 FNL 0841 FWL 43-047-51515 NBU 1021-32F4BS Sec 32 T10S R21E 1878 FNL 2129 FWL BHL Sec 32 T10S R21E 2053 FNL 2191 FWL **NBU 1021-28F PAD** BHL Sec 28 T10S R21E 0831 FNL 2151 FWL

API # WI	ELL 1	NAME		L(OCATI(ON		
(Proposed PZ	WASA	ATCH-MESA VERDE)					
43-047-51517	NBU	1021-28D4BS BHL						
43-047-51518	NBU	1021-28E4BS BHL						
43-047-51519 NBU 1021-28H PAD		1021-28F4BS BHL						
43-047-51520	NBU	1021-28A4BS BHL						
43-047-51521	NBU	1021-28B4BS BHL						
43-047-51522	NBU	1021-28G4BS BHL						
	NBU	1021-28H4BS BHL						
NBU 1021-29F PAD								
43-047-51524	NBU	1021-29C4BS BHL						
43-047-51525	NBU	1021-29D4BS BHL						
43-047-51526	NBU	1021-29E4BS BHL						
	NBU	1021-29F4BS BHL				R21E R21E		
NBU 1021-29I								
43-047-51528	NBU	1021-29I1CS BHL				R21E R21E		
43-047-51529	NBU	1021-29J1CS BHL				R21E R21E		
43-047-51530	NBU	1021-2901CS BHL				R21E R21E		
43-047-51531	NBU	1021-29P1CS BHL				R21E R21E		

Page 3

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 1021-30F

43-047-51532 NBU 1021-30C4BS Sec 30 T10S R21E 1954 FNL 1948 FWL BHL Sec 30 T10S R21E 0826 FNL 2156 FWL 43-047-51533 NBU 1021-30D4BS Sec 30 T10S R21E 1964 FNL 1950 FWL BHL Sec 30 T10S R21E 0821 FNL 0829 FWL 43-047-51534 NBU 1021-30E4BS Sec 30 T10S R21E 1973 FNL 1951 FWL BHL Sec 30 T10S R21E 2136 FNL 0830 FWL 43-047-51535 NBU 1021-30F4BS Sec 30 T10S R21E 1983 FNL 1953 FWL BHL Sec 30 T10S R21E 2150 FNL 2159 FWL 1021-30P PAD 43-047-51536 NBU 1021-30H4BS Sec 30 T10S R21E 1199 FSL 0972 FEL BHL Sec 30 T10S R21E 2175 FNL 0498 FEL 43-047-51537 NBU 1021-30J1CS Sec 30 T10S R21E 1209 FSL 0973 FEL BHL Sec 30 T10S R21E 2162 FSL 1828 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard

DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch
of Minerals, email=Michael_Coulthard@ellm.gov, c=US
Date: 2011.03.1612:35:54-06'00'

bcc: File - Natural Buttes Unit Division of Oil Gas and Mining Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:3-16-11

From: Jim Davis

To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana

CC: Jacobsen, Julie; Lytle, Andy; Piernot, Danielle

Date: 4/28/2011 2:24 PM

Subject: Kerr McGee APD approvals (28)

The following APDs have been approved by SITLA including arch clearance. Paleo clearance is granted with the stipulations noted below.

These wells are approved with out stipulation.

4304751536 NBU 1021-30H4BS 4304751537 NBU 1021-30J1CS 4304751510 NBU 1021-30O4BS 4304751511 NBU 1021-30P1CS 4304751512 NBU 1021-32C4BS 4304751513 NBU 1021-32D4BS 4304751514 NBU 1021-32E4BS 4304751515 NBU 1021-32F4BS

A permitted paleontologist needs to be on-site to observe construction of these wells/ pads.

4304751516 NBU 1021-28C4BS 4304751517 NBU 1021-28D4BS 4304751518 NBU 1021-28E4BS 4304751519 NBU 1021-28F4BS 4304751520 NBU 1021-28A4BS 4304751521 NBU 1021-28B4BS 4304751522 NBU 1021-28G4BS 4304751523 NBU 1021-28H4BS 4304751524 NBU 1021-29C4BS 4304751525 NBU 1021-29D4BS NBU 1021-29E4BS 4304751526 NBU 1021-29F4BS 4304751527 NBU 1021-29I1CS 4304751528 4304751529 NBU 1021-29J1CS NBU 1021-2901CS 4304751530 NBU 1021-29P1CS 4304751531 4304751532 NBU 1021-30C4BS 4304751533 NBU 1021-30D4BS 4304751534 NBU 1021-30E4BS 4304751535 NBU 1021-30F4BS

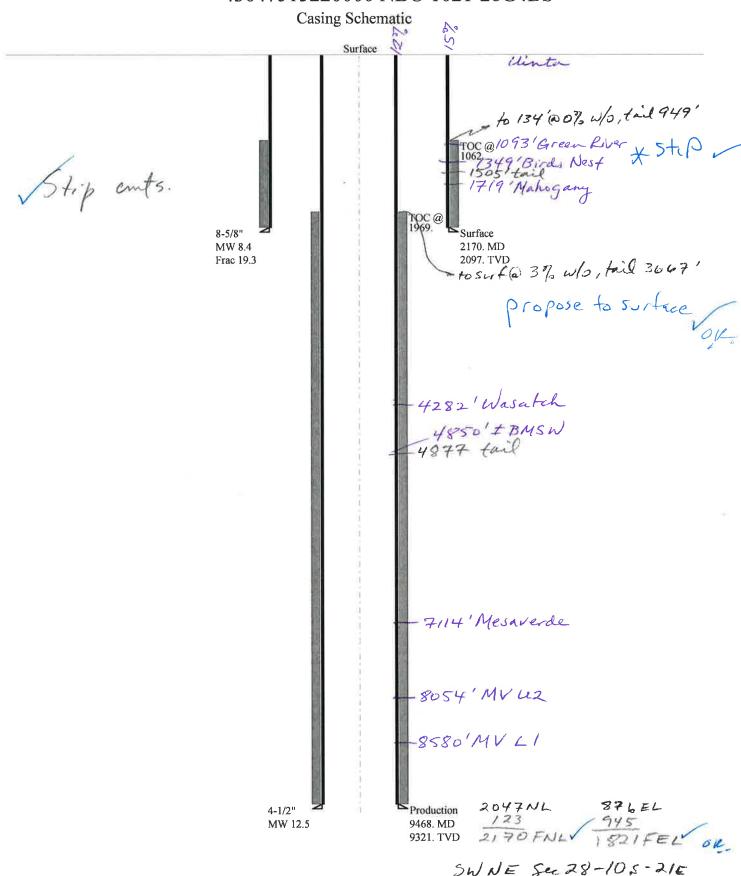
-Jim Davis

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1021-28G4BS 43047515220000

XX/ II X/					_		_		I		
Well Name		KERR-MCGE	ΕO	OIL & GAS C	NS	HORE, L.P. N	BU	1021-28G4B			
String		Surf	<u> </u>	Prod	Ш						
Casing Size(")		8.625	4	1.500							
Setting Depth (TVD)		2097	9	9321							
Previous Shoe Setting Dept	th (TVD)	40	2	2097			Ī				
Max Mud Weight (ppg)		8.4	1	12.5			Ī				
BOPE Proposed (psi)		500	5	5000			Ī				
Casing Internal Yield (psi)		3390	7	7780			Ī				
Operators Max Anticipated	d Pressure (psi)	5965	1	12.3			ſ				
Calculations	Surf	f String				8.62	25	"			
Max BHP (psi)		.052*Setti	ing	Depth*M	W	916	_				
								BOPE Ade	equate For Drilling And Setting Casing at Depth?		
MASP (Gas) (psi)	Max	x BHP-(0.12*	*Set	tting Dept	h)=	664	_	NO	air drill		
MASP (Gas/Mud) (psi)	Max	x BHP-(0.22*	*Set	tting Dept	h)=	455]	YES	ОК		
								*Can Full	Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP22*(Setting D	epth - Previou	us S	Shoe Dept	h)=	463	Ī	NO	Reasonable depth in area		
Required Casing/BOPE Te	est Pressure=					2097	j	psi			
*Max Pressure Allowed @	Previous Casing Shoe=					40	╗	psi *Assumes 1psi/ft frac gradient			
								I			
Calculations	Proc	d String		D 440.0	***	4.50)0 =				
Max BHP (psi)		.052*Setti	ing	Depth*M	W=	6059	ᆚ	DODE 4 1			
MASD (C.) (2)		DIID (0.12*	*C 4	D	1.\	-	=		equate For Drilling And Setting Casing at Depth?		
MASP (Gas) (psi)		x BHP-(0.12*			_	1	╝	YES			
MASP (Gas/Mud) (psi)	Max	x BHP-(0.22*	*Set	tting Dept	:h)=	4008	╝	YES	ОК		
nn av	N. DVD 224/G D			21 72		-	_		Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe		epth - Previou	us S	Shoe Dept	h)=	4470	╝	NO	Reasonable		
Required Casing/BOPE Te						5000	╝	psi			
*Max Pressure Allowed @	Previous Casing Shoe=					2097		psi *Ass	umes 1psi/ft frac gradient		
Calculations	S	tring						"			
Max BHP (psi)		.052*Setti	ing	Depth*M	W		╗				
								BOPE Ade	equate For Drilling And Setting Casing at Depth?		
MASP (Gas) (psi)	Max	x BHP-(0.12*	*Set	tting Dept	h)=]	NO			
MASP (Gas/Mud) (psi)	Max	x BHP-(0.22*	*Set	tting Dept	h)=		7	NO			
								*Can Full	Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP22*(Setting D	epth - Previou	us S	Shoe Dept	h)=			NO			
Required Casing/BOPE To	est Pressure=						7	psi			
*Max Pressure Allowed @	Previous Casing Shoe=							psi *Ass	umes 1psi/ft frac gradient		
Calculations	S	tring	_		_			"			
Max BHP (psi)		.052*Setti	ing	Depth*M	W		7				
						1	_	BOPE Ade	equate For Drilling And Setting Casing at Depth?		
MASP (Gas) (psi)	Max	x BHP-(0.12*	*Set	tting Dept	h)=		7	NO			
MASP (Gas/Mud) (psi)	Max	x BHP-(0.22*	*Set	tting Dept	h)=	=	Ŧ	NO			
						1	=	<u>.</u>	Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP22*(Setting D	epth - Previou	us S	Shoe Dept	h)=	1	╗	NO			
Required Casing/BOPE Te	est Pressure=						Ħ	psi			
- 0						11	4				

*Max Pressure Allowed @ Previous Casing Shoe= psi *Assumes 1psi/ft frac gradient

43047515220000 NBU 1021-28G4BS



Well name:

43047515220000 NBU 1021-28G4BS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

String type:

Design parameters:

Surface

Project ID: 43-047-51522

Location:

UINTAH

COUNTY

Minimum design factors: **Environment:**

Collapse Collapse:

Mud weight: 8.400 ppg

Design is based on evacuated pipe.

H2S considered?

Surface temperature: Design factor 1.125

Bottom hole temperature: 103 °F Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Burst:

Design factor

1.00

1.80 (J)

1.70 (J)

1.60 (J)

1.50 (J)

1.50 (B)

Cement top:

1.062 ft

No

74 °F

Burst

Max anticipated surface

pressure: Internal gradient:

1,910 psi 0.120 psi/ft

Calculated BHP 2,161 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

> Buttress: Premium:

Body yield:

Tension is based on air weight. Neutral point: 1,894 ft Directional Info - Build & Drop

Kick-off point 300 ft Departure at shoe: 470 ft

Maximum dogleg: 2 °/100ft 20° Inclination at shoe:

Re subsequent strings:

9,321 ft Next setting depth: 12.500 ppg Next mud weight: Next setting BHP: 6,052 psi Fracture mud wt: 19.250 ppg

Fracture depth: Injection pressure: 2,170 ft 2,170 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	2170	8.625	28.00	I-55	LT&C	2097	2170	7.892	85932
Run Seq	Collapse Load	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design	Tension Load	Tension Strength	Tension Design
•	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	915	1880	2.054	2161	3390	1.57	58.7	348	5.93 J

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: May 25,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2097 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43047515220000 NBU 1021-28G4BS

Operator:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

String type:

Production

Project ID:

Location:

UINTAH

COUNTY

43-047-51522

Design parameters:		Minimum design	factors:	Environment: H2S considered?	No
Mud weight:	12.500 ppg	Design factor	1.125	Surface temperature:	74 °F
Internal fluid density:	1.000 ppg			Bottom hole temperature:	
				Temperature gradient: Minimum section length:	1.40 °F/100ft 100 ft
		Burst:		William Section length.	100 11
		Design factor	1.00	Cement top:	1,969 ft
Burst		-		·	
Max anticipated surface	4 000				
pressure:	4,002 psi	T		Discotional Info Decid	. Dans
Internal gradient:	0.220 psi/ft	Tension:	4.00 (1)	Directional Info - Build &	•
Calculated BHP	6,052 psi	8 Round STC:	1.80 (J)	Kick-off point	300 ft
		8 Round LTC:	1.80 (J)	Departure at shoe:	953 ft
No backup mud specified.		Buttress:	1.60 (J)	Maximum dogleg:	2 °/100ft
		Premium:	1.50 (J)	Inclination at shoe:	0°
		Body yield:	1.60 (B)		
		Tension is based on	air weight.		

Neutral point:

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	9468	4.5	11.60	I-80	LT&C	9321	9468	3.875	124978
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	5568	6360	1.142	6052	7780	1.29	108.1	212	1.96 J

7,726 ft

Prepared

Helen Sadik-Macdonald

by: Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940 Date: May 25,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9321 ft, a mud weight of 12.5 ppg An internal gradient of .052 psi/ft was used for collapse from TD Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.

Well Name NBU 1021-28G4BS

API Number 43047515220000 APD No 3536 Field/Unit NATURAL BUTTES

Location: 1/4,1/4 SENE **Sec** 28 **Tw** 10.0S **Rng** 21.0E 2047 FNL 876 FEL

GPS Coord (UTM) 623956 4419723 Surface Owner

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the middle portion of the Cottonwood Wash Drainage of Uintah County. The area is characterized by rolling hills and benches which are frequently intersected by somewhat gentle draws. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 6 miles to the White River. No seeps, springs or streams exist in the area. An occasional pond, constructed to store runoff for cattle and livestock, exists.

This location is approximately 22.6 road miles southeast of Ouray, Utah and 49.4 road miles south of Vernal, Utah. It is accessed by the Seep Ridge Road then by Uintah County and existing or planned oil field development roads to within 365 feet of the proposed site. New construction will be required from this point.

The proposed NBU 1021-28H pad will contain 4 gas wells all to be directionally drilled. They are the NBU 1021-28A4BS, NBU 1021-28B4BS, NBU 1021-28G4BS and NBU 1021-28H4BS. The location is on rolling topography immediately west of an existing secondary road. Knolls with rocky outcrops exist to the west. A gentle swale runs through the east side of the location between reserve pit Corner A and location Corner 3. The upper end will be cut with the lower end filled. Some minor flow in this area will be diverted under the access road with a culvert or dry water crossing and follow the east side of pad. Maximum cut for the pad is 5.9 feet at Corner 4 with a maximum fill of 2.5 feet at Corner 1. Cottonwood Wash is about 1 1/4 mile to the west.

Both the surface and minerals for this location are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing Recreational Wildlfe Habitat

New Road Miles Well Pad Src Const Material Surface Formation

0.025 Width 353 Length 455 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

5/31/2011 Page 1

Vegetation is a desert shrub type. Vegetation included shadscale, horsebrush, broom snakeweed, sagebrush, curly mesquite grass, globe mallow, bud sage, mat saltbrush, squirrel tail, cheat grass, prickly pear, halogeton and spring annuals.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Moderately deep sandy loam with small erosion pavement on the surface.

Erosion Issues N

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? Y

Berm Required? N

Erosion Sedimentation Control Required? Y

Paleo Survey Run? Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources?

Reserve Pit

Site-Specific Factors	Site R	anking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned primarily in a cut in the southwest corner of the location. The northwest corner (Corner C has 2.2 feet of fill. With the planned 15-foot outer bench and 2 feet of freeboard it should be stable. Dimensions are 120' x 260' x 12' deep. Kerr McGee proposed to line the pit with a 30-mil liner and 2 layers of felt.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 30 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett (DOGM), Jim Davis (SITLA), Clay Einerson, Charles Chase, Roger Perry, Duane Holmes, Kenny Gathings, Andy Lytle and Shelia Wopsock (Kerr McGee), Alex Hansen and Ben Williams (UDWR), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying).

5/31/2011 Page 2

Floyd Bartlett 3/30/2011 **Evaluator Date / Time**

5/31/2011 Page 3

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3536	43047515220000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL	& GAS ONSHORE,	L.P. Surface Owner-APD		
Well Name	NBU 1021-28G4BS		Unit	NATURAL B	BUTTES
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SENE 28 10S 2	IE S 2047 FNL	876 FEL GPS Coord (UTM)	623955E 44	19719N

Geologic Statement of Basis

5/31/2011

Kerr McGee proposes to set 2,170' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,850'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 28. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill 4/25/2011 **APD Evaluator Date / Time**

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the middle portion of the Cottonwood Wash Drainage of Uintah County. The area is characterized by rolling hills and benches which are frequently intersected by somewhat gentle draws. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 6 miles to the White River. No seeps, springs or streams exist in the area. An occasional pond, constructed to store runoff for cattle and livestock, exists.

This location is approximately 22.6 road miles southeast of Ouray, Utah and 49.4 road miles south of Vernal, Utah. It is accessed by the Seep Ridge Road then by Uintah County and existing or planned oil field development roads to within 365 feet of the proposed site. New construction will be required from this point.

The proposed NBU 1021-28H pad will contain 4 gas wells all to be directionally drilled. They are the NBU 1021-28A4BS, NBU 1021-28B4BS, NBU 1021-28G4BS and NBU 1021-28H4BS. The location is on rolling topography immediately west of an existing secondary road. Knolls with rocky outcrops exist to the west. A gentle swale runs through the east side of the location between reserve pit Corner A and location Corner 3. The upper end will be cut with the lower end filled. Some minor flow in this area will be diverted under the access road with a culvert or dry water crossing and follow the east side of pad. Maximum cut for the pad is 5.9 feet at Corner 4 with a maximum fill of 2.5 feet at Corner 1. Cottonwood Wash is about 1 1/4 mile to the west.

The selected location appears to be a suitable site for drilling and operating a well, and is the best site in the immediate area

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the site visit. He had no concerns regarding the proposal. A seed mix to be used in reclamation has previously been provided to Kerr McGee by SITLA for this zone. Ben Williams and Alex Hansen of the UDWR also attended. The area is classified as yearlong crucial habitat for antelope but no restrictions were recommended. No other wildlife species are expected to be significantly affected.

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett 3/30/2011
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category Condition

5/31/2011

Pits A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and

maintained in the reserve pit.

Surface Drainages adjacent to the proposed pad shall be diverted around the location. Surface The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/11/2011 **API NO. ASSIGNED:** 43047515220000

WELL NAME: NBU 1021-28G4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SENE 28 100S 210E **Permit Tech Review:**

> SURFACE: 2047 FNL 0876 FEL **Engineering Review:**

> **BOTTOM:** 2158 FNL 1822 FEL Geology Review:

COUNTY: UINTAH

LATITUDE: 39.92040 LONGITUDE: -109.54960

UTM SURF EASTINGS: 623955.00 **NORTHINGS: 4419719.00**

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 21329 PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State COALBED METHANE: NO

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES **Bond:** STATE/FEE - 22013542

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Drilling Unit Oil Shale 190-13

Board Cause No: Cause 173-14 Water Permit: Permit #43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting **Fee Surface Agreement**

✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 5 - Statement of Basis - bhill 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason 25 - Surface Casing - hmacdonald

API Well No: 43047515220000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1021-28G4BS **API Well Number:** 43047515220000

Lease Number: ML 21329 **Surface Owner:** STATE **Approval Date:** 5/31/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

API Well No: 43047515220000

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329
SUND	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen igged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1021-28G4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047515220000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	PHOI treet, Suite 600, Denver, CO, 80217 3779	NE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SENE Section: 28	P, RANGE, MERIDIAN: Township: 10.0S Range: 21.0E Meridian: S	5	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
MIRU PETE MARTIN	□ ACIDIZE □ CHANGE TO PREVIOUS PLANS □ CHANGE WELL STATUS □ DEEPEN □ OPERATOR CHANGE □ PRODUCTION START OR RESUME □ REPERFORATE CURRENT FORMATION □ TUBING REPAIR □ WATER SHUTOFF □ WILDCAT WELL DETERMINATION MPLETED OPERATIONS. Clearly show all perform the performance of the	ONDUCTOR HOLE TO 40'. (READY MIX . SPUD WELL IRS.	·
			R RECORD ONLY
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 8/24/2011	

BLM - Vernal Field Office - Notification Form

•	rator KERR-McGEE OIL & GA		,	
	mitted By SHEILA WOPSOCH		nber <u>435.</u>	781.7024
	Name/Number <u>NBU 1021-28</u> Qtr <u>SE/NE</u> Section 28		ins R	lange 21F
_	e Serial Number ML-21329	_ 10111151115 _		<u></u>
API	Number <u>4304751522</u>			
-	<u>d Notice</u> – Spud is the initia below a casing string.	l spudding o	of the we	ll, not drilling
	Date/Time <u>08/23/2011</u>	1100 HRS	AM 🗸	РМ
<u>Casi</u> time	ng – Please report time cas	sing run star	ts, not ce	ementing
	Surface Casing			RECEIVED
	Intermediate Casing			AUG 2 2 2011
	Production Casing			DIV. OF OIL, GAS & MINING
	Liner Other			
	Date/Time <u>09/13/2011</u>	0800 HRS	AM 🗸	РМ
BOP	E Initial BOPE test at surface BOPE test at intermediate 30 day BOPE test Other	• .		
	Date/Time		AM 🗌	РМ
Rem	arks ESTIMATED DATE AND LOVEL YOUNG AT 435.	TIME. PLEA 781.7051 FO	SE CONT R MORE	ΓACT <u></u>

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

zip 84078

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

1368 SOUTH 1200 EAST

city VERNAL

state UT

Phone Number: (435) 781-7024

Well 1

4304751523	NIDU 4004 COLLADO				lame QQ Sec Twp		Rng County		
The state of the s	NBU 1021-28H4BS SENE 28 10S				108	21E	UINTAH		
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date				
B	99999	2,900	8	8/23/2011			3/29/11		

API Number	Well N	lame	QQ	Sec	Twp	Rng	County
4304751522	NBU 1021-28G4BS		SENE	28	108	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	pud Da	te	B.	ity Assignment ffective Date
B	99999	3900	8	3/24/201	1	8	129/11

Well 3

API Number	Well	Name	QQ	Sec	Twp	Rng County			
4304751521	NBU 1021-28B4BS	SENE 28 10S			21E	UINTAH			
Action Code	Current Entity Number	New Entity Number	s	Spud Date		Entity Assignment Effective Date			
B	99999	3900	8	8/23/2011			8/39/11		
	U PETE MARTIN BUCK D WELL ON 08/23/2011		nvs	111 -	. 1.14.	NE			

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity

SPUD WELL ON 08/24/2011 AT 0900 HRS.

- Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

SHEILA WOPSOCK

BAL SWNE

Signature

Title

REGULATORY ANALYST

8/24/2011

Date

(5/2000)

RECEIVED

AUG 2 4 2011

	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329			
SUNDF	SUNDRY NOTICES AND REPORTS ON WELLS					
	sals to drill new wells, significantly deepen on gged wells, or to drill horizontal laterals. Us		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SENE Section: 28	(P, RANGE, MERIDIAN: Township: 10.0S Range: 21.0E Meridian: S		STATE: UTAH			
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA			
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MIRU AIR RIG ON S SURFACE CASING	□ ACIDIZE □ CHANGE TO PREVIOUS PLANS □ CHANGE WELL STATUS □ DEEPEN □ OPERATOR CHANGE □ PRODUCTION START OR RESUME □ REPERFORATE CURRENT FORMATION □ TUBING REPAIR □ WATER SHUTOFF □ WILDCAT WELL DETERMINATION MPLETED OPERATIONS. Clearly show all pert SEPT. 4, 2011. DRILLED SURFA AND CEMENTED. WELL IS WAS NOT JOB WILL BE INCLUDED WREPORT.	ACE HOLE TO 2311'. RAN ITING ON ROTARY RIG. ITH WELL COMPLETION A U				
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst				
SIGNATURE N/A		DATE 9/7/2011				

			FORM 9				
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBERS ML 21329						
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	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR				
✓ NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	CHANGE WELL NAME				
10/21/2011	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT	DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION				
Date of Work Completion:	OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK				
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON				
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL				
☐ DRILLING REPORT	☐ WATER SHUTOFF	\square si ta status extension	APD EXTENSION				
Report Date:	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER:				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT waiver, closed loop drilling options, and a production casing change. The production casing change includes a switch from 4-1/2" I-80 11.6 LB BTC/LTC casing to 4-1/2" I-80 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you. By:							
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE Regulatory Analyst					
Andy Lytle SIGNATURE	720 929-6100	Regulatory Analyst DATE					
N/A		10/20/2011					

Requested Drilling Changes:

Closed Loop

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Variance for FIT Requirements

Kerr-McGee requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

			FORM 9				
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBERS ML 21329						
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Report Date:	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER:				
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NAME (PLEASE PRINT)	PHONE NUMBER	TITLE Regulatory Analyst					
Andy Lytle SIGNATURE	720 929-6100	Regulatory Analyst DATE					
N/A		10/20/2011					

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If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Variance for FIT Requirements

Kerr-McGee requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

	STATE OF UTAH		FORM 9
ī	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1021-28G4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047515220000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENE Section: 2	IIP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridia	n: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
6/26/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
42 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all		·
TE. DEGGNIDE THOI GOLD ON	NO ACTIVITY	pertinent details morading dates, e	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 26, 2012
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBE 720 929-6029	R TITLE Regulatory Analyst I	
SIGNATURE N/A		DATE 6/26/2012	

Sundry Number: 27549 API Well Number: 43047515220000

	STATE OF UTAH		FORM 9		
1	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329		
SUNDR	RY NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1021-28G4BS				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047515220000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	P h Street, Suite 600, Denver, CO, 80217 3	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENE Section: 2	HP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridian	: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
_	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
_	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
7/6/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all		<u>'</u>		
	month of June 2012. Surface	-	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 09, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulartory Analyst			
SIGNATURE N/A		DATE 7/6/2012			

Sundry Number: 28483 API Well Number: 43047515220000

	STATE OF UTAH		FORM 9				
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329				
SUNDR	SUNDRY NOTICES AND REPORTS ON WELLS						
	posals to drill new wells, significantly deer eenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1021-28G4BS				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047515220000				
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHO n Street, Suite 600, Denver, CO, 80217 37	DNE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NATUERAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridian:	S	STATE: UTAH				
11. CHEC	APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
8/2/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe	artinent details including dates d	enths volumes etc				
l .	month of July 2012. Surface ca		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 07, 2012				
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I					
SIGNATURE N/A		DATE 8/2/2012					

Sundry Number: 27634 API Well Number: 43047515220000

	STATE OF UTAH		FORM 9		
1	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329		
SUNDR	RY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal l n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1021-28G4BS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047515220000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	PHC h Street, Suite 600, Denver, CO, 80217 377	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SENE Section: 2	HIP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridian: \$	S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
The operator requ	□ CHANGE TO PREVIOUS PLANS □ CHANGE WELL STATUS □ DEEPEN □ FRATOR CHANGE □ PRODUCTION START OR RESUME □ FRATOR CHANGE □ REPERFORATE CURRENT FORMATION □ STATE OR MATTOR □ TUBING REPAIR □ STATE OR MATTOR □ WATER SHUTOFF □ STATE OR MATTOR	bject well location.	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: EPHS, VOLUMES, etc. Approved by the Utah Division of Oil, Gas and Mining Date: August 15, 2012 By:		
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE			
Gina Becker SIGNATURE	720 929-6086	Regulatory Analyst II DATE			
N/A		7/9/2012			

Sundry Number: 27634 API Well Number: 43047515220000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047515220000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
 - 2. All annuli shall be cemented from a minimum depth of 100' to the surface.
 - 3. Surface reclamation shall be done in accordance with R649-3-34 Well Site Restoration.
 - 4. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
- 5. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.
- 6. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

RECEIVED: Jul. 09, 2012

7/10/2012

Wellbore Diagram

r263

Length

(ft)

API Well No: 43-047-51522-00-00

Permit No:

Well Name/No: NBU 1021-28G4BS

28

Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 28 T: 10S R: 21E Spot: SENE

Coordinates: X: 623893 Y: 4419924

Field Name: NATURAL BUTTES

County Name: UINTAH

String Information

SURF

Bottom Diameter Weight String (ft sub) (inches) (lb/ft) HOL1 40 20 40 14 COND 36.7 HOL2 2311 11

8.625

2270

TOC@SFC

UNTA O'

Conductor: 14 in. @ 40 ft. Cement from 40 ft. to surface Surface: 8.625 in. @ 2270 ft. Hole: 20 in. @ 40 ft.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	40	0	UK	
SURF	2271	0		

Perforation Information

Plug # 1 2311'/(1.15)(0.3505) = 7045x proposed 7075x TOC@ Sfc Vo.K.

Formation Information

Formation	Depth
UNTA	0
GRRV	1093
MHGBN	1719
BMSW	3500

Hole: 11 in. @ 2311 ft.

TD:

2311 **TVD**:

PBTD:

Sundry Number: 27634 API Well Number: 43047515220000

NBU 1021-28G4BS 2047 FNL & 876 FEL SENE SEC. 28, T10S, R21E Uintah County, UT

 KBE:
 5369'
 API NUMBER:
 4304751522

 GLE:
 5344'
 LEASE NUMBER:
 ML-21329

TD: 2311'

CASING: 22" hole

14" conductor casing @ 40' GL TOC @ Surface using 28 sx cmt

11" hole

8.625" 28# J-55 LT&C @ 2271' KB TOC @ Surface per Drilling Report

GEOLOGIC INFORMATION:

Formation Depth to top, ft.

Uinta Surface
Green River 1093'
Bird's Nest 1349'
Mahogany 1719'

Tech. Pub. #92 Base of USDW's

USDW Elevation ~500' MSL USDW Depth ~4869' KBE

RECEIVED: Jul. 09, 2012

Sundry Number: 27634 API Well Number: 43047515220000

NBU 1021-28G4BS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDE. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY UDOGM 24 HOURS BEFORE MOVING ON LOCATION. CALL DAN JARVIS @ 801-538-5338.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS.
 PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

PROCEDURE

Note: An estimated 707 sx Class "G" cement needed for procedure

- 1. MIRU. NU AND TEST BOPE.
- 2. RIH W/ TUBING. FILL SURFACE CASING F/ 2311' SURFACE WITH **707 SX / 144.3 BBL / 810.0 CUFT.** CEMENT, OR SUFFICIENT QUANTITY TO FILL CASING TO SURFACE. POOH W/ TUBING. ENSURE CEMENT STAYS AT SURFACE.RDMO.
- 3. TURN OVER TO OPERATIONS FOR SURFACE REHAB.

ALM 7/5/12

RECEIVED: Jul. 09, 2012

Sundry Number: 30628 API Well Number: 43047515220000

	STATE OF UTAH		FORM 9					
ι	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	· 	5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329					
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
current bottom-hole depth, i	Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.							
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1021-28G4BS					
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047515220000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 7 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5MATERAL BUTTES					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH					
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridi	ian: S	STATE: UTAH					
11. CHECI	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION						
	ACIDIZE	ALTER CASING	CASING REPAIR					
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME					
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE					
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION					
9/17/2012	OPERATOR CHANGE	✓ PLUG AND ABANDON	PLUG BACK					
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION					
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON					
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL					
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION					
	WILDCAT WELL DETERMINATION	OTHER	OTHER:					
12 DESCRIBE PROPOSED OR		all portinent details including dates	<u>'</u>					
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This sundry is being filed on behalf of the Natural Buttes Unit. The State lease number for this well is ML-21329. The operator has concluded the plug and abandonment operations on the subject well location on 09/17/2012. This well was plugged in order to expand and drill the NBU 1021-28H PAD wells. Please see the attached chronological well history for details and updated latitude and longitude locations. Thank you. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 04, 2012								
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMB 720 929-6857	ER TITLE Regulatory Analyst II						
SIGNATURE N/A		DATE 10/3/2012						

Sundry Number: 30628 API Well Number: 43047515220000

US ROCKIES REGION										
Operation Summary Report										
Well: NBU 1021-2	28G4BS		Spud Cor	nductor: 8	3/24/2011		Spud Date: 9/4/	2011		
Project: UTAH-UI	NTAH		Site: NBU	1021-28	H PAD			Rig Name No:		
Event: ABANDON	IMENT		Start Date	e: 9/10/20)12			End Date: 9/17/2012		
Active Datum: RKB @5,369.00usft (above Mean Sea UWI: SE/NE/0/10/S/21/E/28/0/0/26/PM/N/2047/E/0/876/0/0 Level)							47/E/0/876/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
9/17/2012	12:00 -		ABANDP	51		Р		MIRU,TIH 69 JTS, RU SUPERIOR, PUMPED 150 BBLS CLASS G CEMENT, 750 SX, DWN TBG UP 8 5/8' CSG, POOH LD 69 JTS ND BOP'S, RDMO, DIG OUT CELLER, CUT OFF 8 5/8' CSG 5' UNDER SURFACE, TOP OFF CSG, WELD PLATE ON CSG, BACK FILL HOLE,MOVE TO MORGAN STATE 921-36D4CS FOR CLEAN OUT N 39.92039 W 109.55029 ELEV 5338'		

10/3/2012 3:47:08PM 1

STATE OF UTAH AMENDED REPORT FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 21329 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. TYPE OF WELL: 7. UNIT or CA AGREEMENT NAME OTHER UTU63047A b. TYPE OF WORK: WELL NAME and NUMBER: WELL 🔽 RE-ENTRY DIFF. RESVR. OTHER P&A NBU 1021-28G4BS 2. NAME OF OPERATOR: 9 APINIMBER KERR MCGEE OIL & GAS ONSHORE, L.P. 4304751522 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217 (720) 929-6000 NATURAL BUTTES 4. LOCATION OF WELL (FOOTAGES) QTR/QTR, SECTION, TOWNSHIP, RANGE, MEURIVED AT SURFACE: SENE 2047 FNL 876 FEL S28,T10S,R21E OCT 3 0 2012 SENE 28 10S 21E S AT TOP PRODUCING INTERVAL REPORTED BELOW: DIV. OF OH, GAS & MINING 12. COUNTY 13. STATE AT TOTAL DEPTH: UTAH **UINTAH** 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): ABANDONED 7 READY TO PRODUCE 8/24/2011 9/5/2011 /17/2012 5344 GL 18. TOTAL DEPTH: MD 2,311 19. PLUG BACK T.D.: MD 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH BRIDGE MD PLUG SET: TVD 2.235 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) WAS WELL CORED? NO 🔽 YES 🗍 (Submit analysis) WAS DST RUN? NO 🔽 YES (Submit report) DIRECTIONAL SURVEY? NO 🔽 YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER CEMENT TYPE & NO. OF SACKS SLURRY HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) **CEMENT TOP **** AMOUNT PULLED DEPTH VOLUME (BBL) 20" 14" STL 36.7# 0 40 28 11" 8 5/8' IJ-55 28# 0 2.271 495 0 25. TUBING RECORD PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) DEPTH SET (MD) SIZE PACKER SET (MD) DEPTH SET (MD) 26. PRODUCING INTERVALS 27. PERFORATION RECORD FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES PERFORATION STATUS (A) Open Squeezed (B) Open Squeezed (C) Open Squeezed Open Squeezed 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS: ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY P & A SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION **CORE ANALYSIS** OTHER:

31. INITIAL PRO	DUCTION				INT	ERVAL A (As sho	wn in item #26)						
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTED		TEST PRODUCTIO RATES: →	N C	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	. CSG. PR	ESS. API GI	YTIVAS	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N O	DIL BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS
					INT	ERVAL B (As sho	wn in item #26)		10 to				<u> </u>
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTED	D;	TEST PRODUCTIO RATES: →	N C	OIL BBL:	GAS MCF:	WATER -	- BBL:	PROD. METHOD;
CHOKE SIZE:	TBG. PRESS	S. CSG, PR	ESS. API GI	₹AVITY	BTU GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	N C	OIL BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS
					INT	ERVAL C (As sho	wn in item #26)		· · · · · · · · · · · · · · · · · · ·				
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTED	D:	TEST PRODUCTIO RATES: →	N C	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS	S. CSG. PR	ESS. API GI	YTIVAS	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N C	OIL - BBL:	GAS - MCF:	WATER - BBL:		INTERVAL STATUS
					INT	ERVAL D (As sho	wn in item #26)		······································			····	•
DATE FIRST PR	ODUCED:	TEST DA	TE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL BBL:	GAS MCF:	WATER - BBL		PROD. METHOD;
CHOKE SIZE:	TBG. PRESS	S. CSG. PR	ESS. API GI	RAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	N C	OIL – BBL:	GAS - MCF:	WATER-	- BBL:	INTERVAL STATUS
32. DISPOSITION	N OF GAS (So	old, Used for F	uel, Vented, E	c.)	!!								
33. SUMMARY Show all importatested, cushion u	nt zones of por	osity and conte	ents thereof: Co	red interva	als and all drill-stem	n tests, including de	epth interval	34. 1	FORMATION (Log) MARKERS:			
Formatio	on	Тор	Bottom	T	Descrio	tions, Contents, etc	,		····	Name	***	T	Тор
		(MD)	(MD)	ļ		actio, contento, cu	*			IVAITIO		(1	Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ½" bit. The remainder of surface hole was drilled with an 11" bit. After surface csg was set, it was determined this well would be plugged and no further drilling operations were done. 750 sx cement were pumped down the surface csg as per the P&A procedure that was approved 8/15/12. The chronological history of this well is attached.

of thereby certify that the foregoing and attached information is complete and correct as determined from all available records.										
NAME (PLEASE PRINT) JAIME SCHARNOWSKE	TITLE REGULATORY ANALYST									
SIGNATURE Jaine Phanusk	DATE 10 21 2012									

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- ** ITEM 24: Cement Top -- Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION

Operation Summary Report

 Well: NBU 1021-28G4BS
 Spud Conductor: 8/24/2011
 Spud Date: 9/4/2011

 Project: UTAH-UINTAH
 Site: NBU 1021-28H PAD
 Rig Name No: H&P 311/311, PROPETRO 11/11

 Event: DRILLING
 Start Date: 8/22/2011
 End Date:

Active Datum: RKB @5,369.00usft (above Mean Sea

UWI: SE/NE/0/10/S/21/E/28/0/0/26/PM/N/2047/E/0/876/0/0

Level)									
Date :		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/4/2011	100	- 22:00	6.50	DRLSUR	01	В	P	COIV	MIRU ,DRESS CONDUCTOR, INSTALL BLOOIE LINE,CENTER RIG OVER HOLE,R/U & PRIME MUD PUMP & RESERVE PIT PUMP
	22:00	- 22:30	0.50	DRLSUR	06	Α	Р		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8021 . 7/8 LOBE .17 RPM. M/U 12 1/4" QD507 SN 7133232 2ND RUN, W/7-18'S. INSTALL RUBBER
	22:30	- 0:00	1.50	DRLSUR	02	В	Р		SPUD SURFACE 09/4/2011 @ 22:30 HRS. DRILL 12 1/4" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 750/500, UP/ DOWN/ ROT 27/22/25. 532 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
9/5/2011	0:00	- 1:00	1.00	DRLSUR	06	Α	P		POOH L/D 12 1/4 BIT
	1:00	- 2:30	1.50	DRLSUR	06	Α	P		MAKE UP 11" BIT P/U DIR, TOOLS & SCRIBE, TIH, 210'
	2:30	- 4:30	2.00	DRLSUR	02	В	P		DRILL 11" SURFACE HOLE F/ 210'-470 (260' @ 130' / HR) PSI ON/ OFF 1220/900, UP/ DOWN/ ROT 52/32/49. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT.
	4:30	- 16:00	11.50	DRLSUR	02	В	Р		DRILL 11" SURFACE HOLE F/ 210'-2000 (1790' @ 155' / HR) PSI ON/ OFF 1780/1610, UP/ DOWN/ ROT 70/50/62. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT.
	16:00	- 20:30	4.50	DRLSUR	02	В	Р		DRILL 11" SURFACE HOLE F/ 2000'-2311 (311' @ 69' / HR) PSI ON/ OFF 1920/1760, UP/ DOWN/ ROT 80/65/55. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT.
	20:30	- 22:30	2.00	DRLSUR	05	С	Р		CIRC & COND HOLE F/LD & 8 5/8" 28# SURF. CSG RUN
	22:30	- 0:00	1.50	DRLSUR	06	Α	Р		POOH FOR 28# J55 CASING, RUN
9/6/2011	0:00	- 1:30	1.50	DRLSUR	06	Α	Р		LAY DOWN BHA & DIR TOOLS
	1:30	- 2:30	1.00	DRLSUR	12	Α	P		MOVE CATWALK AND PIPE RACKS, MOVE CSG OVER TO WORK AREA, R/U T/RUN 8 5/8" 28# SURF. CSG
	2:30	- 5:00	2.50	DRLSUR	12	С	P		HOLD SAFTEY MEETING,RUN FLOAT SHOE ,SHOE JNT,BAFFLE & 51 JNTS 8 5/8" 28# LT&C CSG W/THE SHOE SET @2271' & THE BAFFLE @2223
	5:00	- 5:30	0.50	DRLSUR	12	Α	Р		RUN 200' 1" PIPE DOWN ANNULUS,MOVE RIG OFF,INSTALL CEMENT HEAD,R/U PRO PETRO CEMENTERS
	5:30	- 7:30	2.00	DRLSUR	12	E	Р		HOLD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 50 BBLS OF 8.4# H20 AHEAD ,FULL RETURNS PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. PUMP 170 SX(115 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W 138 BBLS OF 8.4# H20. LIFT PRESSURE WAS 520 PSI, BUMP PLUG AND HOLD 1000 PSI FOR 5 MIN. FLOAT HELD, 28 BBLS CEMENT TO SURFACE.

10/15/2012

US ROCKIES REGION

Well: NBU 1021-28G4BS Spuc					ud Conductor: 8/24/2011						
				Site: NBU			<u></u>	Rig Name No: H&P 311/311, PROPETRO 11/11			
					: 8/22/20	111		End Date:			
Active Datum: RKB Level)	@5,3	69.00usft (at	oove Mean Se			M: SE/NE/0/10/S/21/E/28/0/0/26/PM/N/2047/E/0/876/0/0					
Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)			
7	7:30	- 8:00	0.50	DRLSUR	12	E	Р	TOP OUT THRU 1" PIPE W/ 125 SKS 15.8			
								PPG,CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK			
8:00 - 8:00 0.00							FLOCELE, CEMENT TO SURF, CEMENT STAYED				
							RELEASE RIG @ 08:00 AM 9/6/2011				
			DRLSUR				CONDUCTOR CASING:				
								Cond. Depth set:40'			
							Cement sx used:28				
								SPUD DATE/TIME:9/4/2011 22:30			
								SURFACE HOLE:			
								Surface From depth:40'			
								Surface To depth:2311'			
								Total SURFACE hours: 40.5			
								Surface Casing size:8 5/8" 28#			
								# of casing joints ran:51			
								Casing set MD:2271			
								# sx of cement:170/200/125			
								Cement blend (ppg:)11.0/15.8/15.8			
								Cement yield (ft3/sk):3.82/1.15/1.15			
								# of bbls to surface:28			
								Describe cement issues:NONE			
								Describe hole issues:NONE			

10/15/2012

10:24:41AM

			KIES REGION ummary Repo	vrt.
Well: NBU 1021-28G4BS	Spud Cor	nductor: 8/24/2011	Spud Date	: 9/4/2011
Project: UTAH-UINTAH	Site: NBU	1021-28H PAD		Rig Name No:
Event: ABANDONMENT	Start Date	9/10/2012		End Date: 9/17/2012
Active Datum: RKB @5,369.00usft (above Mean Sea Level) Date Time Duration	Phase	UWI: SE/NE/0/10	/S/21/E/28/0/0/26/PM P/U MD Fro	
Start-End (hr)	ABANDP	Code 51	P (usff)	MIRU,TIH 69 JTS, RU SUPERIOR, PUMPED 150 BBLS CLASS G CEMENT, 750 SX, DWN TBG UP 8 5/8' CSG, POOH LD 69 JTS ND BOP'S, RDMO, DIG OUT CELLER, CUT OFF 8 5/8' CSG 5' UNDER SURFACE, TOP OFF CSG, WELD PLATE ON CSG, BACK FILL HOLE,MOVE TO MORGAN STATE 921-36D4CS FOR CLEAN OUT N 39.92039 W 109.55029 ELEV 5338'

10/15/2012 10:26:29AM

STATE OF UTAH AMENDED REPORT FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING ML 21329 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. TYPE OF WELL: 7. UNIT or CA AGREEMENT NAME QL, GAS Z UTU63047A b. TYPE OF WORK: 8. WELL NAME and NUMBER: PEEP-RESVR. OTHER P&A ENTRY NBU 1021-28G4BS 2. NAME OF OPERATOR: API NUMBER: KERR MCGEE OIL & GAS ONSHORE, L.P. 4304751522 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT STATE CO ZIP 80217 (720) 929-6000 NATURAL BUTTES P.O.BOX 173779 CITY DENVER 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SENE 2047 FNL 876 FEL S28, T10S, R21E SENE 28 10S 21E S AT TOP PRODUCING INTERVAL REPORTED BELOW: 12. COUNTY 13. STATE AT TOTAL DEPTH: UTAH **UINTAH** 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): ABANDONED 7 9/5/2011 READY TO PRODUCE 8/24/2011 5344 GL 18. TOTAL DEPTH: MD 2,311 19. PLUG BACK T.D.: MD 21. DEPTH BRIDGE MD 20. IF MULTIPLE COMPLETIONS, HOW MANY? PLUG SET: TVD 2,235 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) WAS WELL CORED? ио 🔽 YES (Submit analysis) NO 🗸 WAS DST RUN? YES -(Submit report) DIRECTIONAL SURVEY? NO 🗸 YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) SLURRY VOLUME (BBL) STAGE CEMENTER CEMENT TYPE & HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP ** AMOUNT PULLED DEPTH NO. OF SACKS 20" 14" STL 36.7# 0 40 28 28# 0 11" 8 5/8" JJ-55 2,271 495 0 25. TUBING RECORD DEPTH SET (MD) PACKER SET (MD) DEPTH SET (MD) SIZE SIZE PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 26. PRODUCING INTERVALS 27. PERFORATION RECORD FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) NO. HOLES PERFORATION STATUS SIZE Squeezed [(A) Open (B) Open Squeezed (C) Open Squeezed (D) Open Squeezed 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS: DST REPORT DIRECTIONAL SURVEY GEOLOGIC REPORT ELECTRICAL/MECHANICAL LOGS P&A SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER:

(CONTINUED ON BACK)

(5/2000)

31. INITIAL PRO	DUCTION				_	INT	ERVAL A (As sho	vn in item #26)					
DATE FIRST PR	DATE FIRST PRODUCED: TEST DATE:				HOURS TESTED):	TEST PRODUCTION RATES: →	N OIL-BBL:	GAS MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRES	S.	CSG. PRESS. API GRAVITY		BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:	
						INT	ERVAL B (As show	wn in Item #26)			**************************************		*
DATE FIRST PRODUCED: TEST DATE:						HOURS TESTED		TEST PRODUCTION	N OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S.	CSG. PRESS. API GRAVITY			BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	ON OIL - BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:
· · · · · · · · · · · · · · · · · · ·					***********	INT	ERVAL C (As shor	wn in item #26)			 		<u> </u>
DATE FIRST PR	RODUCED:		TEST DAT	TE:	**************************************	HOURS TESTED	D:	TEST PRODUCTIO	N OIL - BBL:	GAS - MCF: WATER		- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S.	CSG. PRE	ESS. API G	RAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	ON OIL - BBL:	GAS - MCF:	WATER - BBL:		INTERVAL STATUS:
	 					INT	ERVAL D (As sho	wn in item #26)					<u> </u>
DATE FIRST PR	RODUCED:		TEST DA	TE:		HOURS TESTER	_,	TEST PRODUCTIO	N OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	s.	CSG. PRE	ESS. API G	RAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIO RATES: →	ON OIL - BBL:	GAS,MCF:	WATER -	- BBL:	INTERVAL STATUS:
32. DISPOSITION	ON OF GAS (Sold, L	ised for F	uel, Vented, I	tc.)	. 	- L				l		
33. SUMMARY	OF POROUS	ZONE	S (Include	e Aquifers):	·			······································	34. FORMATION	(Log) MARKERS:			
Show all imports tested, cushion							n tests, including de	epth interval	:				
Format	ion	(Гор MD)	Bottom (MD)		Descrip	otions, Contents, etc	c. Name			(1	Top Measured Depth)	
csg was	210' of the	e su s de	rface h	nole was d	rilled w	be plugged	and no furthe	inder of surfac er drilling opera 5/12. The chro	ations were do	one. 750 sx c	ement w	ere p	umped
36. I hereby co	ertify that the	forego	oing and a	attached Infor	mation is	complete and con	rect as determined	i from all avallable n	ecords.	-			
NAME (PLEA	SE PRINT)	JAIN	ME SC	HARNO)	VSKE			TITLE RE	GULATORY	ANALYST			
SIGNATURE	Jain	5	chan	week				DATE	0/21/20	12			
drilli	must be su apleting or ing horizon ompleting to	olugg tal la	ing a ne terals fro	ew well om an exis	ing well	bore •	significantly	previously plugg deepening an ex carbon explorat	disting well bore	below the pre			
* ITEM 20:	Show the r	umb	er of co	mpletions i	produc	tion is measur	ed separately	from two or more	e formations.				
** ITEM 24:	Cement To	p-S	how hov	w reported t	op(s) of	cement were d	etermined (circ	culated (CIR), cal	culated (CAL),	cement bond lo	g (CBL), t	emper	ature survey (TS))

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

801-359-3940 Fax:

Sundry Number: 50122 API Well Number: 43047515220000

	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML 21329			
SUNDF	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES					
1. TYPE OF WELL			8. WELL NAME and NUMBER: NBU 1021-28G4BS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047515220000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-	9. FIELD and POOL or WILDCAT: 6 INATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047 FNL 0876 FEL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 8 Township: 10.0S Range: 21.0E Meridi	an: S	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR			
Approximate date work will start: 9/17/2012	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
9/17/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	✓ RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Il nertinent details including dates	denths volumes etc			
	equests that the final reclam		REQUEST DENIED			
	his well to the following well		Utah Division of			
wells are li	isted below. Thank you. NBU	1021-28H4BS	Oil, Gas and Mining			
			Date: April 23, 2014			
	By: Dand Jam					
NAME (PLEASE PRINT)	PHONE NUMBI	ER TITLE				
Kay E. Kelly	720 929 6582	Regulatory Analyst				
SIGNATURE N/A		DATE 4/15/2014				